

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL  
WELL ☒

GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☐

MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

Marathon Oil Company

3. ADDRESS OF OPERATOR

P.O. Box 2659, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

1,980' FSL & 660' FWL *NWSW*

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

8 miles northwest of Hatch Trading Post, Utah

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

660'

16. NO. OF ACRES IN LEASE

100

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

100

18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

1,348'

19. PROPOSED DEPTH

5,636' *AKAH*

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4,904' GL

22. APPROX. DATE WORK WILL START\*

1st Quarter, 1984

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Please see Items #4 & #5 of	Drilling Program			

Please see the following attachments:

1. Surveyor's Plat
2. Drilling Program & 13-Point Surface Plan
3. Maps and Diagrams

The person responsible for APD is Walt West, Regulatory Coordinator:

Office: (307) 577-1555

Home: (307) 235-1420

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

*Doyle L. Jones*

TITLE

District Operations Manager

DATE

February 14, 1984

(This space for Federal or State office use)

PERMIT NO.

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

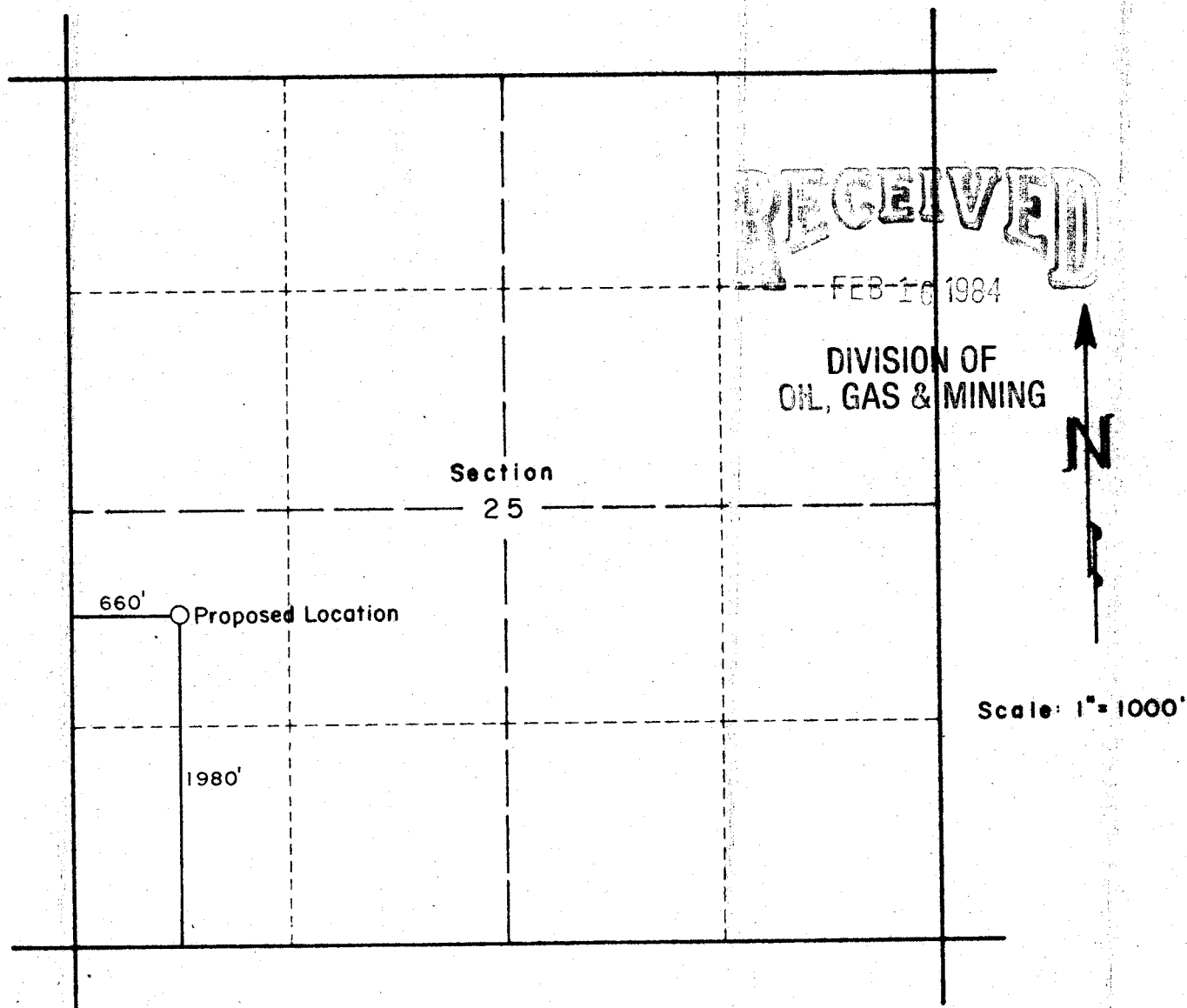
TITLE

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE:

BY:

\*See Instructions On Reverse Side



# **WELL LOCATION: MARATHON OIL COMPANY-Tin Cup Mesa # 2-25**

Located 1980 feet North of the South line and 660 feet East of the West line of Section 25,  
 Township 38 South, Range 25 East, Salt Lake Base & Meridian,  
 San Juan County, Utah.  
 Existing ground elevation determined at 4904 feet based on adjoining locations.

I hereby certify the above plat represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief

*Frederick H. Reed*

FREDERICK H. REED  
Registered Land Surveyor

MARATHON OIL COMPANY  
Casper, Wyoming

**WELL LOCATION PLAT**  
 Tin Cup Mesa # 2-25  
 Sec. 25, T. 38 S., R. 25 E.  
 San Juan County, Utah

CLARK-REED & ASSOC.  
Durango, Colorado

DATE: JAN. 27, 1984  
FILE NO: 84002

BUREAU OF LAND MANAGEMENT

MOAB DISTRICT

CONDITIONS OF APPROVAL FOR PERMIT TO DRILL

Company Marathon Oil Co. Tin Cup Mesa Well No. 2-25

Location Section 25, T38, R25 Lease No. U-13655

1,980' FSL, 660' FWL, San Juan County, Utah

Onsite Inspection Date January 25, 1984

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to ensure compliance.

A. DRILLING PROGRAM

1. Surface Formation and Estimated Formation Tops:

Jurassic Morrison Formation

<u>Formation</u>	<u>Depth (KB)</u>	<u>Datum</u>
Carmel	600'	+4,313'
Navajo	625'	+4,288'
Kayenta	845'	+4,068'
Wingate	1,008'	+3,905'
Chinle	1,393'	+3,520'
Shinarump	2,193'	+2,720'
Moenkopi	2,243'	+2,670'
Cutler	2,303'	+2,610'
Honaker Trail	4,153'	+ 760'
Paradox	5,083'	- 170'
Upper Ismay	5,238'	- 325'
Hovenweep	5,398'	- 485'
Lower Ismay	5,443'	- 530'
Gothic Shale	5,491'	- 578'
Desert Creek	5,511'	- 598'
Chimney Rock	5,591'	- 678'
Akah	5,611'	- 698'
T.D.	5,636'	- 723'

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2. Estimated Depth at Which Oil, Gas, Water, or Other Mineral-Bearing Zones Are Expected to be Encountered:

<u>Formation/Member</u>	<u>Depth (KB)</u>	<u>Possible Content</u>
Carmel	600'	Water
Navajo	625'	Water
Wingate	1,008'	Water
DeChelly**	2,303'	Brine
Honaker Trail	4,158'	Oil
Paradox	5,083'	Brine
Upper Ismay	5,238'	Oil***
Lower Ismay	5,443'	Oil
Desert Creek	5,511'	Oil

\*\* The Cutler Formation may contain the DeChelly Member

\*\*\* Primary Objective

All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth, cased and cemented. All oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment: BOP equipment will include a dual ram type preventer with pipe and blind rams and an annular preventer (API arrangement SRRA). All equipment will have a 3,000 psi or greater working pressure. Rams, valves, lines, choke manifold, and casing will be tested to 200 psi for 5 minutes and 1,500 psi for 5 minutes prior to drilling out from under 9-5/8" surface casing. After drilling casing shoe and 5' of additional hole, a shoe test will be performed to 13.5 ppg equivalent mud weight or leak off, whichever occurs first. The accumulator should be of sufficient capacity to meet the following requirements:

1. Ability to immediately close all members of the stack without recharging.
2. A total of 50% of the original fluid should remain as a reserve after accumulator activation.
3. A minimum pressure of 1,200 psi is required to insure that the preventer rams remain closed.

A visual check of BOP equipment will be made tourly. Function pipe rams daily and blind rams on trips.

Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure-tested before drilling casing cement plugs.

4. Casing Program and Auxiliary Equipment:

See Item #4, Drilling Operations Program

5. Mud Program and Circulating Medium:

<u>From</u>	<u>To</u>	<u>Type Mud</u>	<u>Weight</u>	<u>% Oil</u>	<u>Water Loss</u>
0'	1,500'	Spud	8.5-9.0	0	No Control
1,500'	2,303' Cutler	Gel/Water	8.5-9.0	0	No Control
2,303' Cutler	5,238' U. Ismay	Gel/Chemical	9.4-10.8	0	10.0-12.0 cc's
5,238' U. Ismay	T.D.	Gel/Chemical	As Required	0	8.0-9.0 cc's

Mud weights will be kept at a minimum to maximize ROP and minimize lost circulation. However, the existence of water flows may necessitate an increase in mud weight while drilling. Sufficient barite should be kept on location prior to spud in order to increase the mud weight to 11.7 ppg if required.

6. Coring, Logging and Testing Program:

Samples: 10' intervals from 1,500' to T.D. with a two-man mud logging unit, or as specified by a Marathon representative.

Logging: 1. DLL/MSFL/GR from T.D. to the surface casing with the GR to surface.  
2. BHC Sonic/VDL/GR from T.D. to surface casing.  
3. FDC/CNL/Spectral GR from T.D. to surface casing.

The Coriband (Cyberlook) service will be used from the top of the Honaker Trail to T.D.

Testing: Two DST's are anticipated in the top of the Upper Ismay and in the Desert Creek.

Coring: Two (2) 60' cores are anticipated in the Upper Ismay. One (1) 60' core is anticipated in the Desert Creek.

Fracing Program: If necessary, acid stimulation.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than fifteen (15) days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data

obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Moab District Manager.

7. Abnormal Conditions, Bottom Hole Pressures and Potential Hazards:

The DeChelly Member of the Cutler Formation, if penetrated, may contain overpressured salt water requiring 10.5 to 11.5 ppg mud weight to control.

Maximum anticipated bottom hole temperature is approximately 120°F.

Maximum anticipated bottom hole pressure is approximately 2,200 psi.

8. Anticipated Starting Dates and Notifications of Operations:

Location construction: First Quarter, 1984

Spud date: March 1, 1984

The operator will contact the San Juan Resource Area at Monticello, Utah, forty-eight (48) hours prior to beginning any dirt work on this location.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Manager. If operations are to be suspended, prior approval of the District Manager will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the Area Manager within a minimum of twenty-four (24) hours prior to spudding. If the spudding occurs on a weekend or holiday, the written report will be submitted on the following regular work day.

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 9-329, "Monthly Report of Operations," starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed directly with the BLM District Office, P.O. Box 970, Moab, Utah 84532.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed for prior approval of the District Manager, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

Should the well be successfully completed for production, the District Manager will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than the first business day following the date on which the well is placed on production. A first production conference will be scheduled within fifteen (15) days after receipt of the first production notice.

No well abandonment operations will be commenced without the prior approval of the District Manager. In the case of newly-drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the District Manager. A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the District Manager within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the District Manager, or the appropriate surface managing agency.

Other:

Marathon determines when the 15 days begin after initial production. Marathon will meet with BLM representative.

B. THIRTEEN POINT SURFACE USE PLAN

1. Existing Roads:

- a. Location of proposed well in relation to town or other reference point:

See Diagram "A", color coded Red

- b. Proposed route to location:

See Diagram "A", color coded Red

- c. Location and description of roads in the area:

See Diagram "A", color coded Red

- d. Plans for improvement and/or maintenance of existing roads:

None Anticipated

- e. Other:

None

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2. Planned Access Roads:

a. Width:

Maximum disturbed area is 20'

b. Maximum grades:

0%

c. Turnouts:

None

d. Location (centerline):

Center line flagged

e. Drainage:

Crowned and Ditched

f. Surface materials (source):

If any is needed, purchase from jobber.

g. Other:

None

All travel will be confined to existing access road rights-of-way.

The access road will be rehabilitated or brought to Class III Road Standards within sixty (60) days of dismantling of the drilling rig.

If this time frame cannot be met, the Area Manager will be notified so that temporary drainage control can be installed along the access road.

The Class III Road Standards, which shall ensure drainage control over the entire road through the use of natural, rolling topography, ditch turnouts, drainage dips, outsloping, crowning, low water crossings, and culverts when necessary, will be determined at the appropriate field inspection.

3. Location of Existing Wells:

See Diagram "A"

4. Location of Tank Batteries and Production Facilities:

- All permanent (onsite for six (6) months or longer) structures constructed or installed (including oil well pump jacks) will be



painted a flat, nonreflective, earth tone color to match the standard environmental colors, as determined by the Rocky Mountain Five-State Interagency Committee. All facilities will be painted within six (6) months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded.

If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1-1/2 times the storage capacity of the battery.

Tank batteries will be placed on the:

Existing Battery in Section 25, at wellsite #1-25.

All loading lines will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.

All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

Gas meter runs for each well will be located within five hundred (500) feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and five hundred (500) feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three (3) months on new meter installations and at least quarterly thereafter. The Area Manager will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Moab District Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

5. Location and Type of Water Supply:

All water needed for drilling purposes will be obtained from:

See Diagram "A" for water source points. All water permits have been obtained. #09-1333 (T59609)

6. Source of Construction Material:

Road surfacing and pad construction will be obtained from:

Cut on location, see Diagram "B"

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

Construction material (will/will not) be located on lease.

7. Methods of Handling Waste Disposal:

The reserve pit (will/will not) be lined.

Burning (will/will not) be allowed. All trash must be contained and disposed of by:

Trash cage, upon completion of well, will be buried.

Other:

None

Produced waste water will be confined to a (lined/unlined) pit for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order.

8. Ancillary Facilities:

Camp facilities (will/will not) be required.

9. Well Site Layout:

The reserve pit will be located: See Diagram "B"

The stockpiled topsoil will be stored: See Diagram "B"

Access to the well pad will be from: See Diagram "B"

The trash pit will be located: See Diagram "B"

Reserve pits will be fenced with a wire mesh fence and topped with at least one strand of barbed wire.

10. Plans for Restoration of Surface:

Immediately upon completion of drilling, the location and surrounding area will be cleared of all debris, materials, trash and junk not required for production.

Good engineering practices will be used in restoration of surface location and access road.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry, and all cans, barrels, pipe, etc., will be removed.

No debris will be left in the pit before being back-filled. Reserve pit will be fenced on four sides during drying period.

All disturbed areas will be recontoured to the approximate natural contours.

Trees will be scattered evenly over the disturbed area and walked down with a cat.

The stockpiled topsoil will be evenly distributed over the disturbed areas.

All disturbed areas will be ripped 12" deep with the contour.

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

All rehabilitation work will be to BLM specifications.

Seed will be broadcast or drilled at a time specified by the BLM. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage.

All measures will be used to ensure growth.

The following seed mixture will be used:

- 2 lbs/acre Indian Ricegrass
- 1 lb/acre Curlygrass
- 1 lb/acre Alkali Sacaton
- 2 lbs/acre Fourwing Saltbrush
- 1 lb/acre Wild Sunflower

The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed.

11. Surface and Mineral Ownership:

U. S. Government

12. Other Information:

Class III Archeological inventory by LaPlata Archeological Consultants, Dolores, Colorado. Archeological site on the north side of location will be fenced.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR 3162.2.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.

The dirt contractor will be provided with an approved copy of the surface use plan.

A cultural resource clearance (will/will not) be required before any construction begins. If any cultural resources are found during construction, all work will stop and the Area Manager will be notified.

This permit will be valid for a period of one (1) year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

13. Lessee's or Operator's Representative and Certification

Representative:

Name: Gary Newberry, Drilling Superintendent

Address: P. O. Box 2659, Casper, WY 82602

Phone No: Office: (307) 577-1555

Home: (307) 235-1325

Certification:

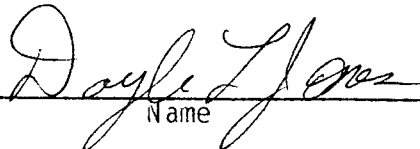
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by:

Marathon Oil Company

and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

February 14, 1984

Date

  
Name

District Operations Manager

-10-

Title

ON-SITE

DATE: January 25, 1984

PARTICIPANTS:

Walt West  
Guy Whitlock  
Brian Wood  
Val Ott  
Carl Bassett  
Lee Lyons  
Jim Wimmier  
Pat Harden  
Howard Hughes  
Dale Murphy  
Jim Perkins  
Lewis Jobe

TITLES:

Regulatory Coordinator, MOC  
Drilling Foreman, MOC  
BLM  
Exploration Geologist, MOC  
Landman, MOC  
Landman, MOC (Trainee)  
Landman, MOC (Trainee)  
LaPlata Archeological Consultants  
Dirt Contractor  
Foreman for Dirt Contractor  
Reed Engr., Surveyor  
Reed Engr., Surveyor Helper

Your contact with the District Office is: Bob Graff

Office Phone: 801-259-6111

City: Moab State: Utah 84532

Resource Area Manager's address and contacts are:

Address: P.O. Box 7, Monticello, UT 84535

Your contact is: Brian Wood

Office Phone: 801-587-2201

Marathon Oil Company  
Drilling Operations Plan

4. The Proposed Casing Program:

Casing Design

<u>Casing String</u>	<u>Hole Size</u>	<u>Interval</u>	<u>Section Length</u>	<u>Size (OD)</u>	<u>Weight, Grade and Joint</u>	<u>New Or Used</u>	<u>Mud Weight</u>	<u>1000# Tension Load</u>	<u>SF<sub>t</sub></u>	<u>SF<sub>C</sub></u>	<u>SF<sub>b</sub></u>
Conductor	20"	0-40'	40'	14"	Thinwall Steel	New					
Surface	12-1/4"	0-1500'	1,500'	8-5/8"	24# K-55	New	8.5-9.0	36	7.31	1.85	2.80
Production	7-7/8"	0-4636'	4,636'	5-1/2"	15.5# K-55	New	8.5-9.0	88.9	2.69	1.34	2.94
		4636-5636'	1,000'	5-1/2"	17# K-55	New	9.4	17	14.8	1.34	3.25

Cement Program

8-5/8" Casing

Cement Volume: 1,500' x .4127 ft<sup>3</sup>/ft x 2.0 excess = 1,238 ft<sup>3</sup>

Lead Slurry: 1,000' plus 100% excess - 503 sacks of high yield cement (35% fly ash, 65% cement, 6% bentonite) containing 1/4#/sk cellophane flakes and 2% CaCl<sub>2</sub>.

Weight: 12.7 ppg

Yield: 1.64 ft<sup>3</sup>/sk

Water Requirement: 8.34 gal/sk

Tail Slurry: 500' plus 100% excess - 350 sacks of Class "B" cement containing 1/4#/sk cellophane flakes and 2% CaCl<sub>2</sub>.

Weight: 15.6 ppg

Yield: 1.18 ft<sup>3</sup>/sk

Water Requirement: 5.2 gal/sk

Casing equipment will include a float shoe, float collar, and three centralizers. WOC time will be a minimum of 6 hours. If float equipment holds, closed-in pressure after cementing is not recommended.

5-1/2" Casing

Cement Volume: 4,150' x .1733 ft<sup>3</sup>/ft x 1.25 excess = 900 ft<sup>3</sup>. Actual cement volumes will be based on caliper logs plus 25% excess.

Sluffy Preflush: 20 barrels

Marathon Oil Company  
Drilling Operations Plan

4. The Proposed Casing Program (Continued):

Cement Program (Continued)

5-1/2" Casing

Lead Slurry: (3,200' column height) 422 sx "Lite" cement w/2%  $\text{CaCl}_2$ .

Weight: 12.7 ppg

Yield: 1.64  $\text{ft}^3/\text{sk}$

Water Requirement: 8.34 gal/sk

Tail Slurry: (950' column height) 175 sacks Class "B" w/1% fluid loss additive.

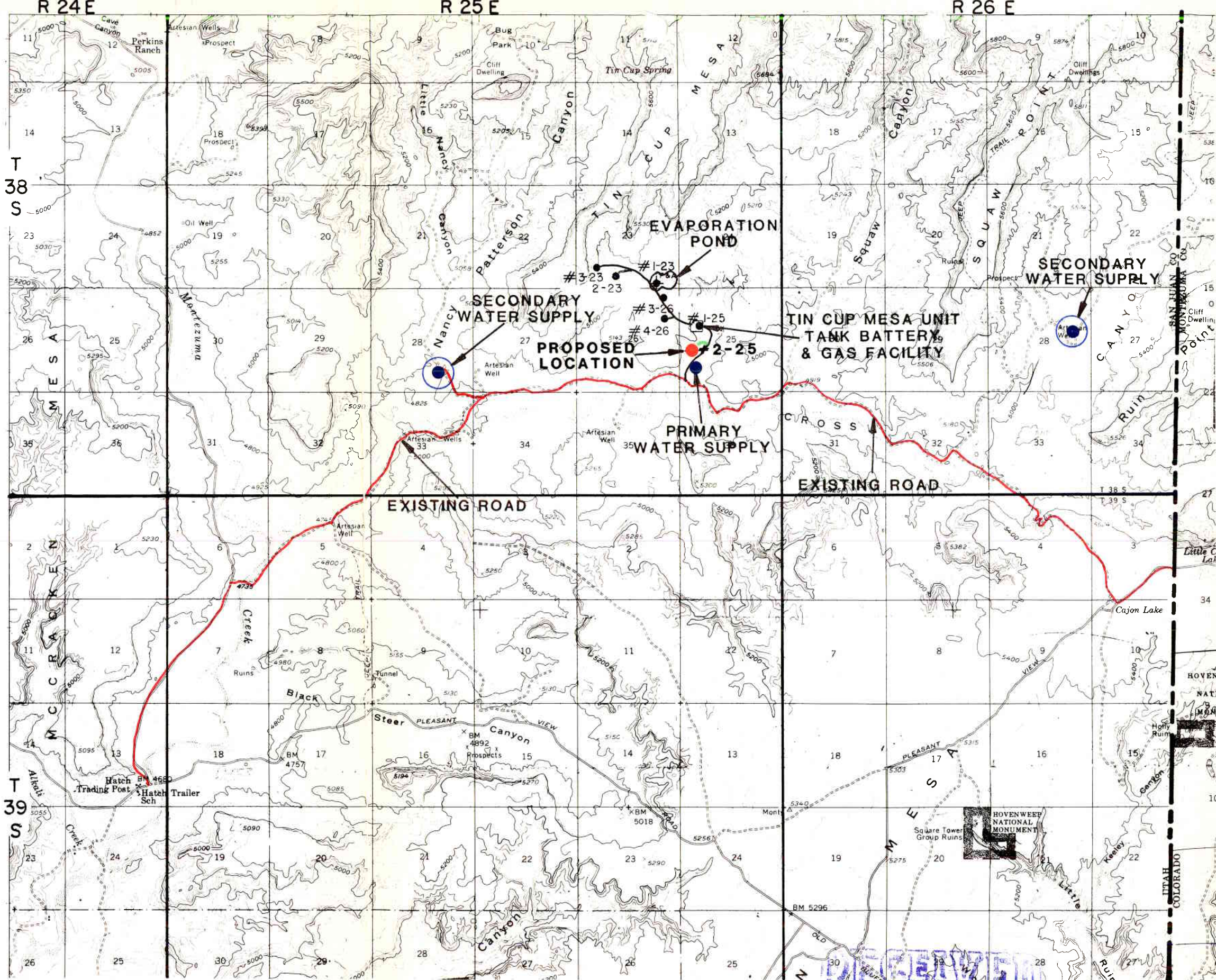
Weight: 15.6 ppg

Yield: 1.18  $\text{ft}^3/\text{sk}$

Water Requirement: 5.2 gal/sk

Casing equipment will include a float shoe, float collar, and six centralizers.





MARATHON OIL COMPANY  
**TIN CUP MESA**  
SAN JUAN CO., UTAH

WELL #2-25  
VICINITY MAP

Scale  
1" = 1 MILE

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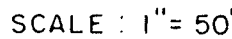
DIVISION OF  
OIL, GAS & MINING

Diagram

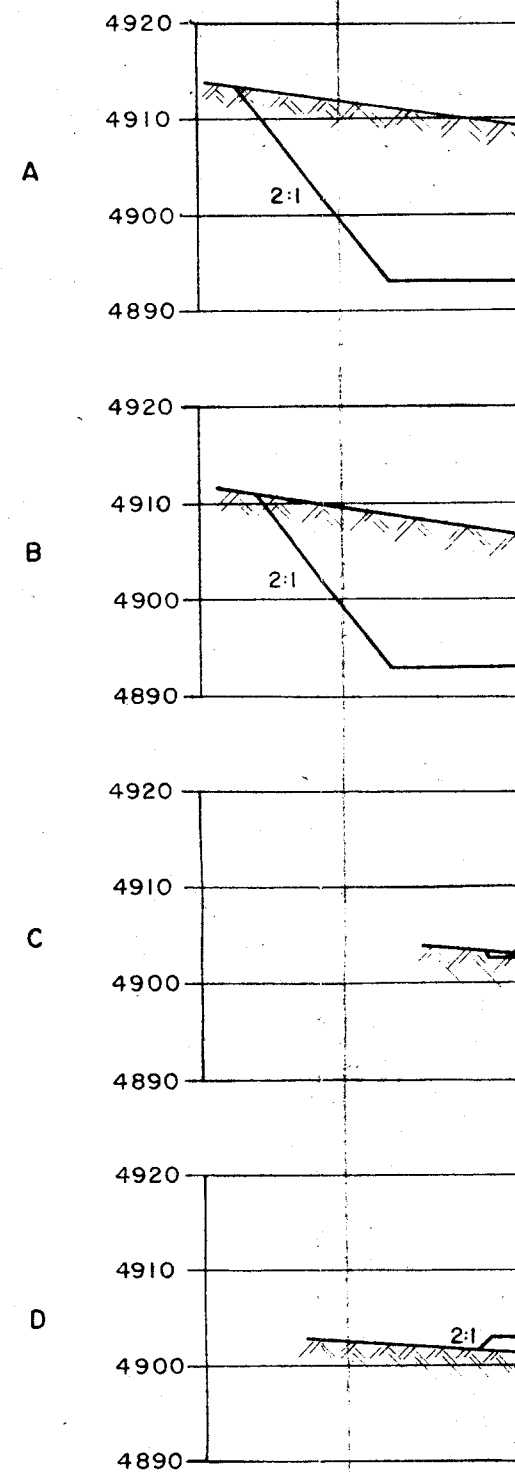
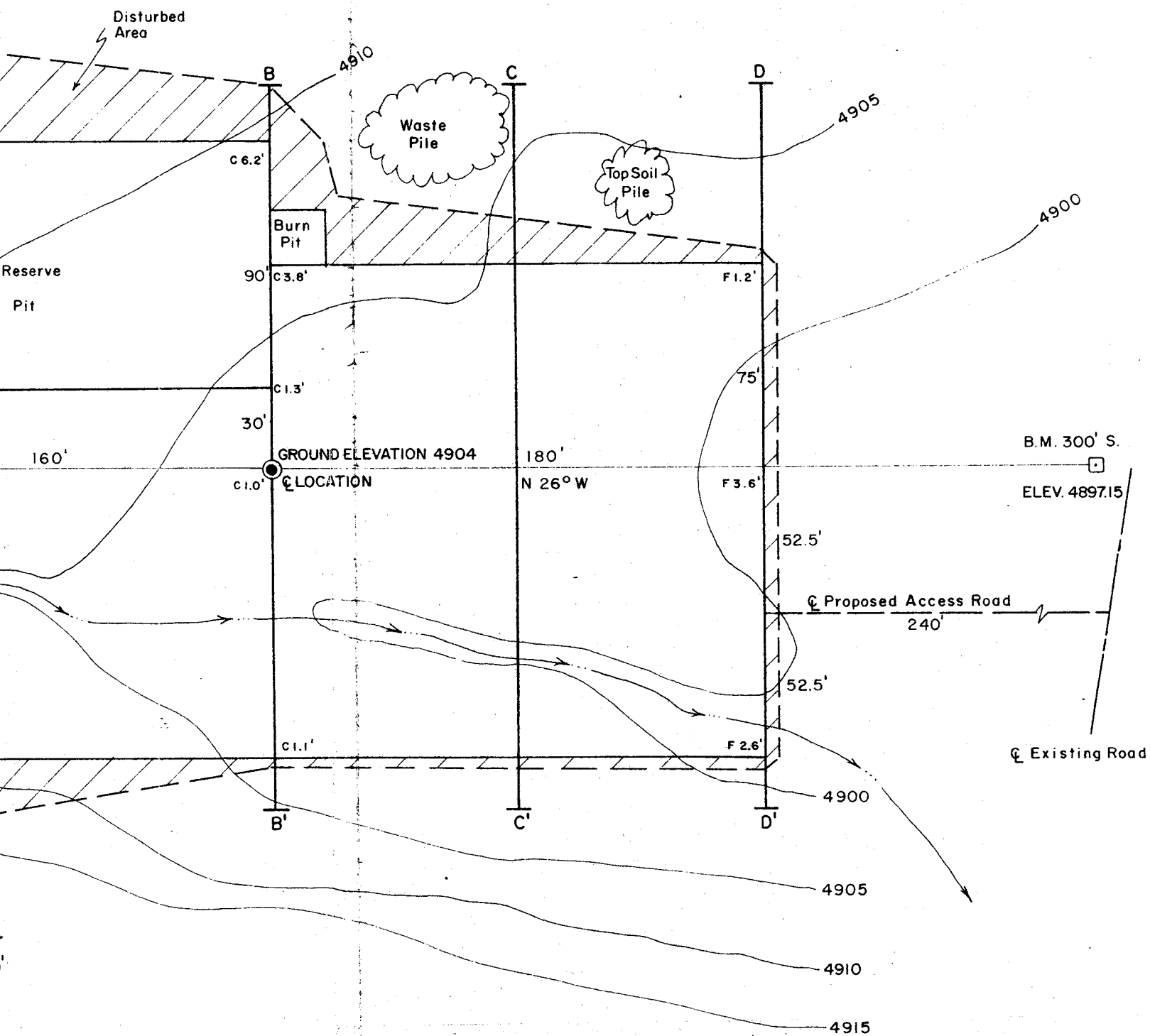




NW/4, SW/4, SE



**MARATHON OIL COMPANY - TIN CUP MESA WELL # 2-25**  
**NW/4 , SW/4 , SEC 25 , T 38 S , R 25 E , S.L.M. , SAN JUAN COUNTY , UTAH**

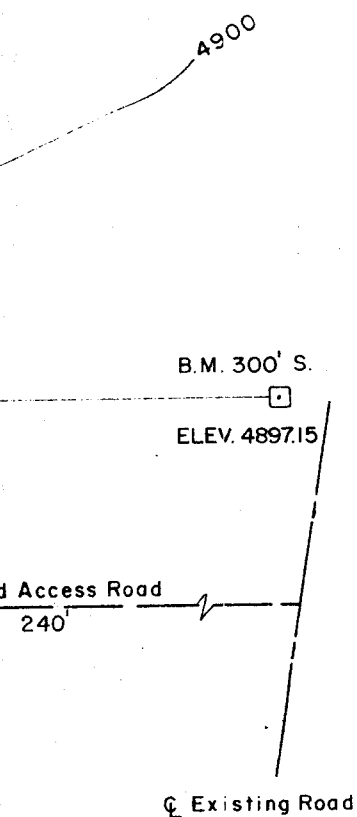
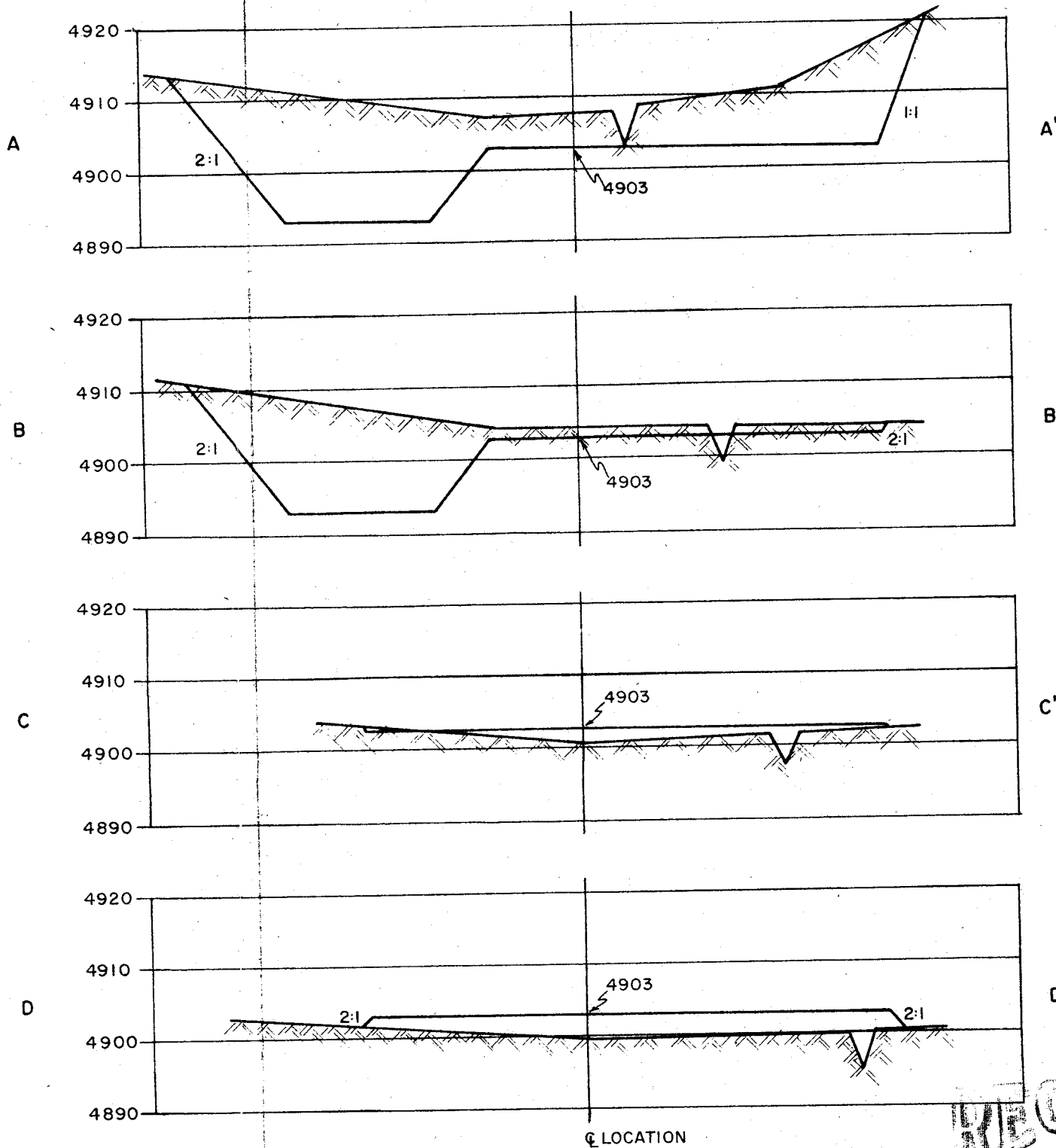


C  
T  
R

COMPANY - TIN CUP MESA WELL # 2-25  
T 38 S, R 25 E, S.L.M., SAN JUAN COUNTY, UTAH

CROSS SECTION

Horizontal Scale : 1" = 50'  
Vertical Scale : 1" = 20'



TOTAL VOLUMES

CUT = 11,827 CU. YDS. FILL = 867 CU. YDS.  
TOP SOIL = 633 CU. YDS. WASTE = 10,221 CU. YDS.  
RESERVE PIT CAPACITY = 17,900 BARRELS

DIAGRAM

B

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DIVISION OF  
OIL, GAS & MINING

MARATHON OIL COMPANY  
CASPER, WYOMING

WELL SITE PLAN

TIN CUP MESA WELL # 2-25

SEC. 25, T. 38 S., R. 25 E.  
SAN JUAN COUNTY, UTAH

CLARK-REED & ASSOC., INC.  
Durango, Colorado

DATE: JAN. 27, 1984  
File No.: 84002

OPERATOR

Marathon Oil Company

DATE

2/16/84

WELL NAME

Tin Cup Mesa 2-250

SEC

NWSE 25

T

38S

R

25E

COUNTY

San Juan

43-037-30983

API NUMBER

Fed

TYPE OF LEASE

POSTING CHECK OFF:

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INDEX

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MAP

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NID

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PI

PROCESSING COMMENTS:

Water OK - #09-1333 (T59609)

✓ CHIEF PETROLEUM ENGINEER REVIEW:

2/16/84 water OK  
Unit development well

APPROVAL LETTER:

SPACING:

☒

A-3

Tin Cup Mesa  
UNIT

☐

c-3-a

CAUSE NO. & DATE

☒

c-3-b

☐

c-3-c

SPECIAL LANGUAGE:

☒ RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

☒ AUTHENTICATE LEASE AND OPERATOR INFORMATION

☒ VERIFY ADEQUATE AND PROPER BONDING

☐ AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

☐ APPLY SPACING CONSIDERATION

☐ ORDER \_\_\_\_\_

☒ UNIT Thin Caps Men

☒ c-3-b

☒ c-3-c

☐ CHECK DISTANCE TO NEAREST WELL.

☐ CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

☐ IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

☐ IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

☐ VERIFY LEGAL AND SUFFICIENT DRILLING WATER

February 20, 1984

Marathon Oil Company  
Attn: Walt West  
P. O. Box 2659  
Casper, Wyoming 82602

RE: Well No. Tin Cup Mesa 2-25  
NWSW Sec. 25, T. 38S, R. 25E  
1980 FSL, 660' FWL  
San Juan County, Utah

Dear Walt:


Approval to drill the above referenced oil well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify R. J. Firth, Chief Petroleum Engineer, Telephone (801) 533-5771 (Office), 571-5068 (Home).
4. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-30983.

Sincerely,



R. J. Firth  
Chief Petroleum Engineer

RJF/as  
cc: Branch of Fluid Minerals  
Enclosures

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☐ OTHER Drilling

2. NAME OF OPERATOR  
Marathon Oil Company

3. ADDRESS OF OPERATOR  
P.O. Box 2659, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface  
1,980' FSL & 660' FWL

14. PERMIT NO.  
43-037-30983

15. ELEVATIONS (Show whether D, GL, or KB)  
4,904' GL, 4,916' KB

RECEIVED  
MAR 8 1984

DIVISION OF  
OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.  
U-13655

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
Tin Cup Mesa

8. FARM OR LEASE NAME  
Tin Cup Mesa

9. WELL NO.  
2-25

10. FIELD AND POOL, OR WILDCAT  
Tin Cup Mesa

11. SEC., T., R., OR BLK. AND SURVEY OR AREA  
Section 25, T38S, R25E

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) Please See Attachment

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON\* ☐

CHANGE PLANS ☒

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT\* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

PROGRESS REPORT

From: \_\_\_\_\_ To: \_\_\_\_\_

Spudded well at 7:00 p.m., March 2, 1984, with Bayless Rig #5.

Ran 8-5/8", 24# Surface Casing to 1,501' KB, cemented in place at 4:30 p.m., March 4, 1984.

18. I hereby certify that the foregoing is true and correct

SIGNED Gary A. Hawberry

TITLE Drilling Superintendent

DATE March 5, 1984

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED

APR 13 1984

DIVISION OF OIL  
GAS & MINING

6. LEASE DESIGNATION AND SERIAL NO.

U-13655

8. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Tin Cup Mesa

8. WASH OR LEASE NAME

Tin Cup Mesa

9. WELL NO.

2-25

10. FIELD AND POOL, OR WILDCAT

Tin Cup Mesa

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Section 25, T38S, R25E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

14. PERMIT NO.

43-037-30983

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4,904' GL, 4,916' KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other) Please See Attachment

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

PROGRESS REPORT

From: 3-3-84 To: 4-4-84

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Operations Superintendent

DATE April 6, 1984

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

\*See Instructions on Reverse Side



TIN CUP MESA #2-25

3-3-84 303' MADE 253' IN MORRISON FORMATION. MW 8.4, VIS 30. SPUD WELL @ 7:00 P.M. 3-2-84. DRLG AHEAD, NO PROB.

3-4-84 1,461' MADE 1,158' IN CHINLE FORMATION. MW 9.4, VIS 44. DRLG @ 1,461'.

3-5-84 1,507' MADE 46' IN CHINLE FORMATION. MW 8.5, VIS 28. DRLD TO 1,507'. POH. RU LOGGERS. RUN DIL-GR-CAL FROM TD TO SURFACE. RAN 37 JTS 8-5/8" TO 1,501'. NU BOPE.

3-6-84 2,300' MADE 793' IN MOENKOPI FORMATION. MW 8.7, VIS 27. NU BOPE. TEST CSG AND BLIND RAM TO 200# AND 1,500#. TEST PR AND ANN TO 200# AND 1,500#. DRLD CMT AND SHOE AND 10' NEW FORM. TEST SHOE TO 14.5 PPG EMW. DRLG @ 2,300'.

3-7-84 2M842' MADE 542' IN CUTLER FORMATION. MW 10.5, VIS 53. DRLG @ 2,842', NO PROBLEM.

3-8-84 3,317' MADE 475' IN CUTLER FORMATION. MW 11.3, VIS 43. DRLG @ 3,317'.

3-9-84 3,667' MADE 350' IN CUTLER FORMATION. MW 11.3, VIS 55. DRLG @ 3,667'.

3-10-84 3,938' MADE 271' IN CUTLER FORMATION. MW 11.4, VIS 42. DRLD 3,667'-3,938'.

3-11-84 4,147' MADE 209' IN CUTLER FORMATION. MW 11.7, VIS 42. DRLG AHEAD @ 4,147'.

3-12-84 4,462' MADE 315' IN HONAKER TRAIL FORMATION. MW 11.2, VIS 43. DRLD 4,147'-4,462'.

3-13-84 4,770' MADE 308' IN HONAKER TRAIL FORMATION. MW 11.4, VIS 48. DRLD 4,462'-4,770'.

3-14-84 5,052' MADE 282' IN HONAKER TRAIL FORMATION. MW 11.4, VIS 45. DRLD 4,700'-5,052', NO PROBLEM. NEW HONAKER TRAIL TOP: 4,155'. BGG: 1 U.

3-15-84 5,263' MADE 211' IN UPPER ISMAY FORMATION. MW 11.3, VIS 40. DRLD TO 5,263'. CIRC SAMPLES. CIRC AND COND MUD.

3-16-84 5,301' MADE 38' IN UPPER ISMAY FORMATION. MW 11.6, VIS 46. PU CORE BBL. CORED 5,263'-5,301'.

3-17-84 5,369' MADE 46' IN ISMAY FORMATION. MW 11.7, VIS 46. CORED 5,301'-5,323'.

3-18-84 5,475' MADE 106' IN L. ISMAY FORMATION. MW 11.9, VIS 48. DRLG @ 5,475'.

3-19-84 5,580' MADE 105' IN DESERT CREEK FORMATION. MW 11.7, VIS 45. DRLD 5,475'-5,559'.

3-20-84 5,619' MADE 39' IN AKAH FORMATION. MW 12.0, VIS 45. DRLD TO 5,619'.

3-21-84 5,619' MADE 0' IN AKAH FORMATION. MW 11.8, VIS 41. RUN LOGS. RUN #1 DLL-MSFL-GR, RUN #2 FDC-CNL, RUN #3 SONIC-VDL RD LOGGERS. RIH. CIRC. LD DP, DC'S.

3-22-84 5,619' MADE 0' IN AKAH FORMATION. MW H<sub>2</sub>O. RAN 138 JTS 5-1/2", K-55 CSG W/SHOE @ 5,619', FLOAT CLR @ 5,535'. CMTED W/750 SXS LITE + 2% CACLZ FOLLOWED BY 275 SXS CLASS "B" W/1% FLUID LOSS. CIP @ 12:15 P.M. 3-21-84.

TIN CUP MESA #2-25

3-23-84 5,619' MADE 0' IN AKAH FORMATION. REMARKS: NU BOPE WOC.

3-24-85 5,619' MADE 0' IN AKAH FORMATION. REMARKS: WOC. RIH W/4-3/4" BIT & CSG SCRAPER ON 2-7/8" TBG TAG CMT @ 5,528, POH WOC TILL 2:00 P.M. RIG LOGGERS W/LUBRICATOR, RAN CBL-CCL-GR @ 0 PSI. HAD GOOD BOND. LOGGERS TD 5,530'.

3-25-84 5,619' MADE 0' IN AKAH FORMATION. REMARKS: FINISH LOGGING. TEST CSG @ 3,000 PSI 15 MINS, O.K. ND BOPE RIH W/BAKER MODEL A-2 LOK SET PKR & ON OFF TOOL. SLM. SPOT CORROSION INHIBITOR. PKR ID 1.98 POH PU BAKER MOD AL-2 PKR W/ON & OFF TOOL. RIH SPOT COAT B 1400 CORROSION INHIB. SET PKR 12.52' BELOW KB @ 5194.76. LAND TBG W/24,000# TENSION. TEST PKR & TBG 3,000 PSI O.K. NU TREE. RELEASE RIG @ 12:00 3-24-84.

3-26-84/3-28-84  
5,619' WAITING ON COMPLETION PROCEDURE.

3-29-84 PREPARING LOCATION FOR COMPLETION.

3-30-84 RU CUDD PRESSURE CONTROL COIL TBG UNIT. SPOTTED 350 GAL, 15% HCL ACID W/COILED TBG FROM 5,342' TO 4,344' KB. PULLED TBG TO 4,000' AND DISPLACED WATER OUT OF 2-7/8" PRODUCTION TBG WITH NITROGEN FROM 4,000' TO SURFACE. PULLED COILED TBG.

PERFORATED ISMAY FORMATION W/GEOSOURCE THRU TBG GUN, 4 SHOTS PER FOOT 0° PHASING AS FOLLOWS: 1ST RUN FROM 5,300' KB TO 5,314' KB AND 2ND RUN FROM 5,336' TO 5,342' KB. TAGGED FLUID LEVEL @ 4,100' ON BOTH RUNS. OPENED WELL TO PIT AFTER LAST RUN WITH NO FLOW INDICATED. SHUT WELL IN OVERNIGHT.

3-31-84 SI TBG PRESS @ 7:50 A.M. 3-30-84 WAS 400 PSI. OPENED WELL TO PIT, BLEW DOWN TO 0 PSI IN 2 MINUTES & STARTED FLOWING ACID WATER, FLOWED 10 BBLS ACID WATER & TURNED WELL TO SEPARATOR @ 30/64" CHOKE. WELL FLOWED 156 BO, .3 BW IN 8 HRS AND GAS AT A RATE OF 269 MCF/D. FLOWING TUBING PRESSURE WAS 380 PSI AT END OF FLOW PERIOD.

4-1-84 24 HR TEST: 410 BOD, 1.8 BWD, 411.8 BFD, .43% WC, 317 MCFD, 773 GOR, FTP 324#, 22/64" CHOKE.

4-2-84 24 HR TEST, 431 BOD, 0 BWD, 431 BFD, 0% WC, 343 MCFD, 796 GOR, 21/64 CHOKE, 300 FTP.

4-3-84 24 HR TEST: 402 BOD, .6 BWD, .14% WC, 315 MCFD, 783 GOR, 20/64" CH, 300# FTP.

4-4-84 24 HR TST: 395 BOD, .5 BWD, 395.5 BFD, .12% WC, 288 MCFD, 729 GOR, 300 FTP, 20/64" CHOKE. SOLD 656 BBL OIL.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLI  
(Other instructions  
verse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME Tin Cup Mesa	
2. NAME OF OPERATOR Marathon Oil Company		8. FARM OR LEASE NAME Tin Cup Mesa	
3. ADDRESS OF OPERATOR P.O. Box 2659, Casper, WY 82602		9. WELL NO. 2-25	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1,980' FSL & 660' FWL		10. FIELD AND POOL, OR WILDCAT Tin Cup Mesa	
14. PERMIT NO. 43-037-30983		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 25, T38S, R25E	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4,904' GL, 4,916' KB		12. COUNTY OR PARISH San Juan	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON\* ☐

CHANGE PLANS ☐

Please See Below ☒

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT\* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

We request an extension of time for the testing of the above-captioned well until the laying of the flowlines has been completed. A maximum of 30 days should be sufficient.

Verbal permission was given to Walt West, MOC, by Mr. Bob Turri, BLM, Monticello, Utah, and Mr. Bob Graff, BLM, Moab, Utah, April 25, 1984.

RECEIVED

MAY 1 1984

DIVISION OF OIL  
GAS & MINING

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 4/25/84  
BY: [Signature]

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature]

TITLE District Operations Manager

DATE April 25, 1984

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

12

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other \_\_\_\_\_  
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other \_\_\_\_\_

2. NAME OF OPERATOR

Marathon Oil Company

3. ADDRESS OF OPERATOR

P.O. Box 2659, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface 1,980' FSL & 660' FWL

At top prod. interval reported below

At total depth

RECEIVED

MAY 4 1984

NWSW DIVISION OF OIL  
GAS & MINING

14. PERMIT NO. 43-037-30983 DATE ISSUED 2-20-84

5. LEASE DESIGNATION AND SERIAL NO.

U-13655

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Tin Cup Mesa

8. FARM OR LEASE NAME

Tin Cup Mesa

9. WELL NO.

2-25

10. FIELD AND POOL, OR WILDCAT

Tin Cup Mesa

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Section 25, T38S, R25E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

15. DATE SPUDDED 3-2-84 16. DATE T.D. REACHED 3-20-84 17. DATE COMPL. (Ready to prod.) 4-29-84 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 4,904' GL, 4,916' KB 19. ELEV. CASINGHEAD --

20. TOTAL DEPTH, MD & TVD 5,619' KB 21. PLUG, BACK T.D., MD & TVD 5,530' KB 22. IF MULTIPLE COMPL., HOW MANY\* -- 23. INTERVALS DRILLED BY -- ROTARY TOOLS 0'-5,619' CABLE TOOLS None

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

Ismay 5,300'-5,314'  
5,326'-5,342'

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIL-GR-CAL, DLI-MSEI-GR, EDC-CNI, Sonic-VDI, CBL-CCL-GR

27. WAS WELL CORED

Yes

28. CASING RECORD (Report all strings set in well)

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	1,502'	12-1/4"	503 sx Lite, 350 sx "G"	None
5-1/2"	15.5#	5,619'	7-7/8"	1,025 sx	--
	17.0#	1,023'			--

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
		None			2-7/8"	5,195'	5,195'

31. PERFORATION RECORD (Interval, size and number)

Ismay 5,300-5,314', .34" Dia. Holes, 56 shots  
5,326-5,342', .34" Dia. Holes, 64 shots

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5,342'-4,344'	350 gals of 15% HCl acid
5,300'-5,314'	spotted at each interval
5,326'-5,342'	

33.\* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
4-28-84		Flowing				Testing Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4-28-84	24	20/64"	→	307	278	0.8	906 SCF/Bbl
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
320 psi	Packer	→	307	278	0.8	44° API	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

To be sold

TEST WITNESSED BY

Jim VanGilder (MOC)

35. LIST OF ATTACHMENTS

None

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

*[Signature]*

TITLE

District Operations Manager

DATE

May 1, 1984

\*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

51

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Shinarump Moenkopi Cutler Honaker Trail Paradox Upper Ismay Hovenweep Lower Ismay Gothic Desert Creek Chimney Rock Akah	2,207' 2,237' 2,305' 4,162' 5,096' 5,248' 5,393' 5,427' 5,482' 5,485' 5,581' 5,603'	2,237' 2,305' 4,162' 5,096' 5,248' 5,393' 5,427' 5,482' 5,485' 5,581' 5,603' 5,619' KB		Shinarump Moenkopi Cutler Honaker Trail Paradox Upper Ismay Hovenweep Lower Ismay Gothic Desert Creek Chimney Rock Akah	2,207' 2,237' 2,305' 4,162' 5,096' 5,248' 5,393' 5,427' 5,482' 5,485' 5,581' 5,603'	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	6. LEASE DESIGNATION AND SERIAL NO. U-13655
2. NAME OF OPERATOR Marathon Oil Company	7. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 2659, Casper, WY 82602	7. UNIT AGREEMENT NAME Tin Cup Mesa
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1,980' FSL & 660' FWL	8. WARM OR LYASE NAME Tin Cup Mesa
14. PERMIT NO. 43-037-30983	9. WELL NO. 2-25
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4,904' GL, 4,916' KB	10. FIELD AND POOL, OR WILDCAT Tin Cup Mesa
	11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA Section 25, T38S, R25E
	12. COUNTY OR PARISH San Juan
	13. STATE Utah

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>

(Other) Please See Attachment ☒

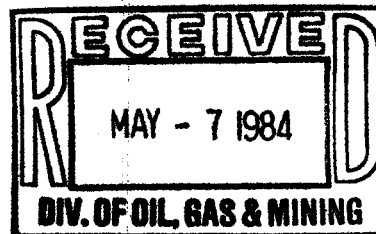
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

PROGRESS REPORT

From: 4-5-84 To: 4-29-84

*Well Completed 4-29-84*



18. I hereby certify that the foregoing is true and correct

SIGNED H. D. Guthrie

TITLE Assistant Dir. Sept.

DATE 5-4-84

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side

TIN CUP MESA #2-25

4-5-84 373.8 BOD, .3 BWD, 374.1 BFD, .1% WC, 294 MCFD, 786 GOR, 300 PSI FTP, 20/64" CHOKE.

4-6-84 355 BOD, .5 BWD, 355.5 BFD, .14% WC, 330 MCFD, 929 GOR, 300 PSI FTP, 20/64" CHOKE.

4-7-84 370.5 BOD, .3 BWD, 370.8 BFD, .08% WC, 336 MCFD, 906 GOR, 310 PSI FTP, 20/64" CHOKE.

4-8-84 390 BOD, .6 BWD, 390.6 BFD, .15% WC, 328 MCFD, 841 GOR, 300 PSI FTP, 20/64" CHOKE.

4-9-84 389 BOD, .2 BFD, 389.2 BFD, .05% WC, 331 MCFD, 850 GOR, 300 PSI FTP, 20/64" CHOKE.

4-10-84 368.4 BOD, .5 BWD, 368.9 BFD, 328 MCFD, 891 GOR, 295 PSI FTP, 20/64" CHOKE.

4-11-84 345.5 BOD, .3 BWD, 345.8 BFD, .08% WC, 306 MCFD, 886 GOR, 305 PSI FTP, 19/64" CHOKE, CUT PARAFFIN ON 2-25, RUN TI 4,000'. RUN FLOWING GRADIENT AS PER PROCEDURE, RUN TANDEM 4,000# BOMBS W/180 HR CLOCKS, SET @ 5,250' KB, CHOKE ON 19/64". STARTED TIME @ 1:30 P.M.

4-12-84 273.7 BO, .2 BW, 273.9 BF, .07% WC, DAY RATE OF 312 MCF, 875 GOR, 348 PSI FTP, 19/64" CHOKE.

4-13-84 314 BOD, 0 BWD, 314 BFD, 0% WC, 278 MCFD, 885 GOR, 390 PSI FTP, 17/64" CHOKE.

4-14-84 322 BOD, .1 BWD, 0% WC, 283 MCFD, 878 GOR, 390 PSI FTP, 17/64" CHOKE.

4-15-84 322 BO, .7 BW, .2% WC, 358 MCFD, 1,111 GOR, 290 PSI FTP, 28/64" CHOKE.

4-16-84 380 BOD, .6 BOD, .1% WC, 326 MCFD, 810 GOR, 280 PSI FTP, 48/64" CHOKE.

4-17-84 358 BO, .3 BW, .07% WC, 326 MCF, 821 GOR, 280 PSI FTP, 48/64" CHOKE.

4-18-84 359 BO, .9 BW, 368 MCF, 1,025 PSI FTP, 48/64" CHOKE.

4-19-84 394 BOD, .3 BWD, .07% WC, 315 MCF, 799 GOR, 310 PSI FTP, 20/64" CHOKE.

4-20-84 345 BOD, .3 BWD, .08% WC, 288 MCF, 834 GOR, 320 PSI FTP, 20/64" CHOKE.

4-21-84 341 BOD, .2 BWD, .05% WC, 288 MCFD, 844 GOR, 320 PSI FTP, 20/64" CHOKE.

4-22-84 332 BOD, .4 BWD, .12% WC, 267 MCFD, 804 GOR, 310 PSI FTP, 20/64" CHOKE.

4-23-84 319 BOD, .2 BWD, .06% WC, 267 MCFD, 836 GOR, 310 PSI FTP, 20/64" CHOKE.

4-24-84 297 BOD, .3 BWD, .1% WC, 262 MCF, 882 GOR, 300 PSI FTP, 20/64" CHOKE.

4-25-84 322 BOD, 1.2 BW, .37% WC, 310 MCF, 962 GOR, 320 PSI FTP, 20/64" CHOKE. CUT PARAFFIN ON 2-25, SPUD TO 525', @ 1,015' & 1,050' TIGHT SPOTS, RUN TO 3,500'.

4-26-84 329 BO, .2 BW, .06% WC, 267 MCF, 811 GOR, 315 PSI FTP, 20/64" CHOKE.

4-27-84 307 BO, .7 BW, .22% WC, 283 MCF, 921 GOR, 320 PSI FTP, 20/64" CHOKE.

4-28-84 319 BO, .4 BW, .12% WC, 278 MCF, 871 GOR, 320 PSI FTP, 20/64" CHOKE.

4-29-84 WELL COMPLETED TO FLOW AS FOLLOWS: 307 BO, .8 BW, .26% WC, 278 MCF, 905 GOR, 320 PSI FTP, 20/64" CHOKE. CUT PARAFFIN ON 2-25, SPUD TO 320', RUN TO 3,500'.



**Marathon  
Oil Company**

Casper Division  
Production United States

**RECEIVED**

**AUG 20 1984**

P.O. Box 2659  
Casper, Wyoming 82602  
Telephone 307/577-1555

**DIVISION OF OIL  
GAS & MINING**

August 16, 1984

Claudia Jones  
Oil, Gas & Mining  
Natural Resources  
State of Utah  
Salt Lake City, Utah 84114

Re: Marathon Oil Company  
#2-25 Tin Cup Mesa  
1,980' FSL, 660' FWL  
Section 25, T38S, R25E  
San Juan County, Utah

Dear Claudia,

Enclosed please find one copy of the Cement Bond Log and core analysis for the #2-25. The enclosed data should bring your well record file up to date.

If you have any questions regarding this matter, contact myself or Walt West at our Casper District Operations Office (307-577-1555).

Sincerely,

A handwritten signature in cursive script that reads 'Elizabeth C. Strathouse'.

Elizabeth C. Strathouse  
Geologist

ECS:mrt

Enclosure



CORE LABORATORIES, INC.  
Petroleum Reservoir Engineering  
DALLAS, TEXAS

CORE ANALYSIS REPORT

FOR

MARATHON OIL COMPANY

NO. 2-25 TIN CUP MESA WELL

TIN CUP MESA FIELD

SAN JUAN COUNTY, UTAH

Sec. 25, T. 38S, R. 25E

*Upper Smay*

Core 1 5264'-5324' Cut 60'  
Recovered 60'

Core 2 5324'-5384' Cut 60'  
Recovered 60'

*Desert Creek*

Core 3 5559'-5589.5' Cut 30.5  
Recovered 29.5

DALLAS, TEXAS

MARATHON OIL COMPANY  
NO. 2-25 TIN CUP MESA WELL  
TIN CUP MESA FIELD  
SAN JUAN COUNTY, UTAH

DATE ON : 16-MAR-84  
FORMATION : ISMAY/DESERT CREEK  
DRILG. FLUID: WBM  
LOCATION : NW SW SEC. 25-T38S-R25E

OFF: 04-APR-84  
FILE NO : 3803-3320  
LABORATORY: FARMINGTON  
ANALYSIS : DS:EV  
ELEVATION : 4916 KB

FULL DIAMETER ANALYSIS--BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH FEET	PERM MD MAX Ka	PERM MD 90DEG Ka	He POR	OIL% PORE	WTR% PORE	GRAIN DEN	DESCRIPTION
	5264.0-73.0							ANHYDRITE-NO ANALYSIS
1	5273.0-74.0	1.4	**	7.5	0.0	19.8	2.85	DOL BRN FNXLN SL/ANHY
2	5274.0-75.0	26.	14.	18.1	7.0	19.9	2.84	DOL BRN FNXLN SL/ANHY
3	5275.0-76.0	25.	22.	20.4	14.0	40.2	2.84	DOL BRN FNXLN SL/ANHY
4	5276.0-77.0	29.	25.	20.0	9.4	31.2	2.84	DOL BRN FNXLN SL/ANHY
5	5277.0-78.0	29.	**	19.0	10.9	27.8	2.85	DOL BRN FNXLN SL/ANHY
6	5278.0-79.0	32.	30.	19.9	11.3	30.1	2.83	DOL BRN FNXLN SL/ANHY
7	5279.0-80.0	25.	25.	21.4	12.9	28.4	2.84	DOL BRN FNXLN SL/ANHY
8	5280.0-81.0	31.	31.	20.9	14.2	30.8	2.84	DOL BRN FNXLN SL/ANHY
9	5281.0-82.0	31.	30.	19.1	10.6	21.3	2.83	DOL BRN FNXLN SL/ANHY
10	5282.0-83.0	0.60	0.43	6.8	6.3	50.2	2.79	LM GRV VFXLN DOL
11	5283.0-84.0	32.	24.	18.5	7.1	16.3	2.77	LM LTBRN FNXLN DOL
12	5284.0-85.0	8.7	8.7	16.6	10.1	21.5	2.76	LM LTBRN FNXLN DOL
13	5285.0-86.0	5.0	4.7	12.9	9.3	27.9	2.74	LM LTBRN FNXLN DOL
14	5286.0-87.0	4.5	4.3	13.6	7.1	28.5	2.74	LM LTBRN FNXLN DOL
15	5287.0-88.0	5.6	5.2	13.8	0.8	18.7	2.75	LM LTBRN FNXLN DOL
16	5288.0-89.0	1.3	1.3	8.5	11.9	23.9	2.83	DOL BRN FNXLN CALC SL/ANHY
17	5289.0-90.0	4.5	**	13.7	7.0	31.4	2.77	LM LTBRN FNXLN DOL
18	5290.0-91.0	4.0	3.8	15.0	6.1	29.8	2.76	LM LTBRN FNXLN DOL
19	5291.0-92.0	0.91	0.80	11.7	5.4	26.0	2.76	LM LTBRN FNXLN DOL
20	5292.0-93.0	1.1	1.0	7.9	6.8	27.4	2.74	LM LTBRN FNXLN DOL
21	5293.0-94.0	5.0	4.8	13.9	7.0	21.9	2.75	LM LTBRN FNXLN DOL
22	5294.0-95.0	11.	11.	13.7	1.9	69.9	2.82	DOL LTBRN FNXLN SL/CALC SL/ANHY
23	5295.0-96.0	35.	34.	20.0	9.3	23.2	2.83	DOL LTBRN FNXLN SL/CALC SL/ANHY
24	5296.0-97.0	17.	17.	16.8	14.8	28.6	2.87	DOL LTBRN FNXLN SL/CALC SL/ANHY
25	5297.0-98.0	24.	24.	18.0	7.6	18.7	2.84	DOL BRN FNXLN SL/ANHY
26	5298.0-99.0	22.	19.	20.9	10.8	27.1	2.86	DOL BRN FNXLN SL/ANHY
27	5299.0- 0.0	25.	23.	25.7	13.3	37.0	2.82	DOL BRN FNXLN SL/ANHY

DALLAS, TEXAS

MARATHON OIL COMPANY  
NO. 2-25 TIN CUP MESA WELL

DATE ON : 16-MAR-84

OFF: 04-APR-84 FILE NO : 3803-3320

FORMATION : ISMAY/DESERT CREEK

LABORATORY: FARMINGTON

FULL DIAMETER ANALYSIS--BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH FEET	PERM MD MAX Ka	PERM MD 90DEG Ka	He POR	OILZ PORE	WTRZ PORE	GRAIN DEN	DESCRIPTION
28	5300.0- 1.0	14.	13.	16.1	14.8	32.3	2.86	DOL BRN FNXLN SL/ANHY
29	5301.0- 2.0	16.	15.	16.5	14.5	26.0	2.84	DOL BRN FNXLN SL/ANHY
30	5302.0- 3.0	24.	22.	22.1	15.2	26.0	2.84	DOL BRN FNXLN SL/ANHY
31	5303.0- 4.0	20.	19.	18.3	9.9	35.4	2.86	DOL BRN FNXLN SL/ANHY
32	5304.0- 5.0	19.	18.	17.3	11.5	24.0	2.84	DOL BRN FNXLN SL/ANHY
33	5305.0- 6.0	21.	19.	23.9	4.6	19.7	2.81	DOL BRN FNXLN SL/ANHY
34	5306.0- 7.0	20.	18.	17.5	17.3	22.4	2.85	DOL BRN FNXLN SL/ANHY
35	5307.0- 8.0	17.	16.	18.4	3.5	16.1	2.85	DOL BRN FNXLN SL/ANHY
36	5308.0- 9.0	11.	10.	15.8	8.5	36.3	2.83	DOL BRN FNXLN SL/ANHY
37	5309.0-10.0	0.94	0.85	11.2	6.4	29.3	2.81	DOL BRN FNXLN SL/ANHY
38	5310.0-11.0	3.3	3.2	15.3	12.2	34.6	2.78	LM GRY VFXLN DOL
39	5311.0-12.0	3.2	3.1	7.0	2.3	45.2	2.74	LM GRY VFXLN DOL
40	5312.0-13.0	1.9	1.6	7.5	7.6	30.3	2.75	LM GRY VFXLN DOL
41	5313.0-14.0	0.71	0.61	2.6	24.0	20.5	2.76	LM GRY VFXLN DOL
42	5314.0-15.0	1.7	1.1	4.7	13.4	32.1	2.75	LM GRY VFXLN DOL
43	5315.0-16.0	0.43	0.37	3.1	4.7	37.7	2.77	LM GRY VFXLN DOL
44	5316.0-17.0	0.34	0.24	3.9	0.0	19.0	2.76	LM GRY VFXLN DOL
45	5317.0-18.0	0.58	0.53	5.8	2.8	33.6	2.76	LM GRY VFXLN DOL
46	5318.0-19.0	3.2	2.9	8.5	2.0	32.7	2.76	LM GRY VFXLN DOL
47	5319.0-20.0	0.13	0.05	3.5	0.0	56.4	2.75	LM GRY VFXLN DOL
48	5320.0-21.0	0.81	0.65	6.5	3.9	23.3	2.79	LM GRY VFXLN DOL
49	5321.0-22.0	0.68	**	17.7	0.6	59.3	2.83	DOL LTBRN VFXLN RTHY
50	5322.0-23.0	0.66	0.62	16.7	0.7	61.2	2.82	DOL LTBRN VFXLN RTHY
51	5323.0-24.0	2.2	**	22.7	0.5	75.2	2.81	DOL LTBRN VFXLN RTHY
52	5324.0-25.0	4.9	**	23.1	0.4	89.1	2.84	DOL LTBRN VFXLN RTHY
53	5325.0-26.0	17.	16.	25.0	9.0	29.6	2.84	DOL LTBRN VFXLN RTHY
54	5326.0-27.0	0.64	0.62	8.3	10.3	51.6	2.78	LM GRY VFXLN DOL
55	5327.0-28.0	1.8	1.6	9.7	8.0	27.4	2.76	LM GRY VFXLN DOL
56	5328.0-29.0	5.1	4.2	8.7	10.7	30.4	2.78	LM GRY VFXLN DOL VUG
57	5329.0-30.0	7.8	7.5	11.8	10.5	33.4	2.75	LM GRY VFXLN DOL VUG

DALLAS, TEXAS

MARATHON OIL COMPANY  
NO. 2-25 TIN CUP MESA WELL

DATE ON : 16-MAR-84 OFF: 04-APR-84 FILE NO : 3803-3320  
FORMATION : ISMAY/DESERT CREEK LABORATORY: FARMINGTON

FULL DIAMETER ANALYSIS--BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH FEET	PERM MD MAX Ka	PERM MD 90DEG Ka	He POR	OIL% PORE	WTRZ PORE	GRAIN DEN	DESCRIPTION
58	5330.0-31.0	104.	29.	9.0	8.3	24.0	2.71	LM GRY VFXLN DOL VUG
59	5331.0-32.0	5.7	4.1	8.0	12.7	38.1	2.72	LM GRY VFXLN DOL VUG
60	5332.0-33.0	21.	10.	10.0	11.4	38.1	2.72	LM GRY VFXLN DOL VUG
61	5333.0-34.0	3.2	2.2	8.4	9.0	30.0	2.72	LM GRY VFXLN DOL VUG
62	5334.0-35.0	991.	317.	9.4	13.0	41.0	2.72	LM GRY VFXLN DOL VUG
63	5335.0-36.0	4.8	4.4	7.5	3.7	29.3	2.71	LM GRY VFXLN DOL VUG
64	5336.0-37.0	4.1	2.6	9.2	5.4	16.2	2.72	LM GRY VFXLN DOL VUG
65	5337.0-38.0	1.9	1.8	7.1	1.8	22.1	2.71	LM GRY VFXLN DOL VUG
66	5338.0-39.0	0.36	0.29	4.9	0.0	29.0	2.73	LM GRY VFXLN DOL VUG
67	5339.0-40.0	0.59	**	7.9	2.5	10.1	2.79	DOL LTBRN VFXLN RTHY
68	5340.0-41.0	1.3	1.3	17.1	4.2	50.3	2.80	DOL LTBRN VFXLN RTHY
69	5341.0-42.0	0.50	0.45	15.5	3.3	60.1	2.80	DOL LTBRN VFXLN RTHY
70	5342.0-43.0	2.9	**	21.7	1.8	58.0	2.81	DOL LTBRN VFXLN RTHY
71	5343.0-44.0	0.02	**	6.2	2.4	42.7	2.77	LM DKGRY VFXLN
72	5344.0-45.0	0.14	0.12	10.9	9.7	54.1	2.87	DOL LTBRN VFXLN
73	5345.0-46.0	0.57	0.50	8.5	0.0	38.6	2.73	LM GRY VFXLN
74	5346.0-47.0	0.14	**	7.6	4.5	13.6	2.72	LM GRY VFXLN
75	5347.0-48.0	21.	**	21.4	3.5	14.2	2.83	DOL LTBRN VFXLN
76	5348.0-49.0	0.26	**	14.3	5.4	8.6	2.83	DOL LTBRN VFXLN
77	5349.0-50.0	<0.01	**	4.9	5.9	54.7	2.72	LM GRY VFXLN STYL
78	5350.0-51.0	0.03	**	10.8	22.2	38.0	2.74	LM GRY VFXLN
79	5351.0-52.0	<0.01	**	3.5	37.1	29.7	2.73	LM GRY VFXLN STYL
80	5352.0-53.0	<0.01	**	1.7	34.4	27.5	2.73	LM GRY VFXLN
81	5353.0-54.0	<0.01	**	2.5	11.5	46.1	2.74	LM GRY VFXLN
82	5354.0-55.0	<0.01	**	2.4	6.8	54.3	2.74	LM GRY VFXLN
83	5355.0-56.0	<0.01	**	2.8	12.1	48.5	2.74	LM GRY VFXLN STYL
84	5356.0-57.0	<0.01	**	1.4	8.2	49.4	2.71	LM GRY VFXLN
85	5357.0-58.0	<0.01	**	7.3	6.2	49.2	2.77	LM GRY VFXLN STYL
86	5358.0-59.0	<0.01	**	1.7	4.0	16.1	2.76	LM GRY VFXLN DOL
87	5359.0-60.0	<0.01	**	2.8	2.4	38.1	2.72	LM GRY VFXLN DOL

DALLAS, TEXAS

MARATHON OIL COMPANY  
NO. 2-25 TIN CUP MESA WELL

DATE ON : 16-MAR-84

OFF: 04-APR-84 FILE NO : 3803-3320

FORMATION : ISMAY/DESERT CREEK

LABORATORY: FARMINGTON

FULL DIAMETER ANALYSIS--BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH FEET	PERM MD MAX Ka	PERM MD 90DEG Ka	He POR	OIL% PORE	WTR% PORE	GRAIN DEN	DESCRIPTION
88	5360.0-61.0	0.09	**	7.1	0.0	83.2	2.77	LM GRY VFXLN DOL
89	5361.0-62.0	2.5	1.7	7.7	0.0	46.9	2.76	LM GRY VFXLN DOL
90	5362.0-63.0	2.8	2.1	10.0	0.0	65.7	2.74	LM GRY VFXLN DOL
91	5363.0-64.0	7.3	5.2	21.8	6.7	47.9	2.74	LM GRY VFXLN DOL
92	5364.0-65.0	5.9	5.5	15.0	0.0	35.9	2.74	LM GRY VFXLN DOL
93	5365.0-66.0	5.7	3.3	11.9	0.0	62.8	2.72	LM GRY VFXLN DOL
94	5366.0-67.0	4.2	3.8	21.7	0.0	61.3	2.74	LM GRY VFXLN DOL
95	5367.0-68.0	5.6	2.9	12.9	0.0	73.5	2.75	LM GRY VFXLN DOL
96	5368.0-69.0	3.9	2.7	10.2	0.0	68.0	2.76	LM GRY VFXLN DOL
97	5369.0-70.0	1.1	**	10.0	0.0	67.0	2.73	LM GRY VFXLN DOL
98	5370.0-71.0	2.9	2.8	9.6	0.0	72.1	2.75	LM GRY VFXLN DOL
99	5371.0-72.0	1.5	1.5	9.6	0.0	60.3	2.74	LM GRY VFXLN DOL
100	5372.0-73.0	1.7	1.5	8.7	0.0	49.3	2.74	LM GRY VFXLN DOL
101	5373.0-74.0	1.4	1.2	7.5	0.0	54.0	2.77	LM GRY VFXLN DOL
102	5374.0-75.0	0.85	0.81	7.0	0.0	45.0	2.76	LM GRY VFXLN DOL
103	5375.0-76.0	4.5	**	7.3	0.0	44.2	2.75	LM GRY VFXLN DOL
104	5376.0-77.0	0.98	0.77	6.5	0.0	25.2	2.75	LM GRY VFXLN DOL
105	5377.0-78.0	0.47	0.45	6.8	0.0	41.8	2.74	LM GRY VFXLN DOL
106	5378.0-79.0	0.49	0.45	6.7	0.0	30.5	2.74	LM GRY VFXLN DOL
107	5379.0-80.0	0.68	0.66	6.1	0.0	50.2	2.74	LM GRY VFXLN DOL
108	5380.0-81.0	0.07	0.05	3.5	0.0	48.5	2.74	LM GRY VFXLN DOL
109	5381.0-82.0	1.6	**	15.9	0.0	66.9	2.82	DOL LTBRN VFXLN RTHY
110	5382.0-83.0	1.7	**	17.4	0.0	72.2	2.82	DOL LTBRN VFXLN RTHY
111	5383.0-84.0	2.0	1.9	17.7	0.0	72.3	2.82	DOL LTBRN VFXLN RTHY
	5384.0-59.0							DRILLED TO DESERT CREEK
112	5559.0-60.0	<0.01	**	4.7	0.0	82.0	2.72	LM GRY VFXLN DOL FOSS CRIN
113	5560.0-61.0	<0.01	**	3.7	18.0	66.8	2.69	LM GRY VFXLN DOL FOSS CRIN
114	5561.0-62.0	<0.01	**	3.2	0.0	55.9	2.70	LM GRY VFXLN DOL FOSS CRIN
115	5562.0-63.0	<0.01	**	2.1	0.0	46.4	2.63	LM GRY VFXLN DOL FOSS CRIN
116	5563.0-64.0	<0.01	**	3.2	0.0	53.2	2.69	LM GRY VFXLN DOL FOSS CRIN

DALLAS, TEXAS

MARATHON OIL COMPANY  
NO. 2-25 TIN CUP MESA WELL

DATE ON : 16-MAR-84  
FORMATION : ISMAY/DESERT CREEK

OFF: 04-APR-84 FILE NO : 3803-3320  
LABORATORY: FARMINGTON

FULL DIAMETER ANALYSIS--BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH FEET	PERM MD MAX Ka	PERM MD 90DEG Ka	He POR	OIL% PORE	WTR% PORE	GRAIN DEN	DESCRIPTION
117	5564.0-65.0	<0.01	**	3.9	0.0	79.0	2.70	LM GRY VFXLN DOL FOSS CRIN
118	5565.0-66.0	<0.01	**	2.2	0.0	84.3	2.68	LM GRY VFXLN DOL FOSS CRIN
119	5566.0-67.0	<0.01	**	3.0	0.0	77.3	2.69	LM GRY VFXLN DOL FOSS CRIN
120	5567.0-68.0	<0.01	**	5.4	5.9	83.1	2.67	LM GRY VFXLN DOL FOSS CRIN
121	5568.0-69.0	<0.01	**	4.8	0.0	91.6	2.72	LM GRY VFXLN DOL FOSS CRIN
122	5569.0-70.0	<0.01	**	4.8	0.0	81.5	2.73	LM GRY VFXLN DOL FOSS CRIN
123	5570.0-71.0	<0.01	**	4.2	0.0	79.6	2.71	LM GRY VFXLN DOL FOSS CRIN
124	5571.0-72.0	<0.01	**	4.3	0.0	60.7	2.69	LM GRY VFXLN DOL FOSS CRIN
125	5572.0-73.0	<0.01	**	4.1	0.0	81.5	2.71	LM GRY VFXLN DOL FOSS CRIN
126	5573.0-74.0	<0.01	**	3.5	2.4	76.8	2.71	LM GRY VFXLN DOL FOSS CRIN
127	5574.0-75.0	<0.01	**	1.7	0.0	65.6	2.69	LM GRY VFXLN DOL FOSS CRIN
128	5575.0-76.0	<0.01	**	2.9	0.0	79.9	2.70	LM GRY VFXLN DOL FOSS CRIN
129	5576.0-77.0	<0.01	**	3.9	5.1	81.2	2.73	LM GRY VFXLN DOL FOSS CRIN
	5577.0-81.0							DOLOMITE/SHALE-NO ANALYSIS
	5581.0-88.0							SHALE-NO ANALYSIS

\*\* UNSUITABLE FOR FULL DIAMETER ANALYSIS

**CORE LABORATORIES, INC.***Petroleum Reservoir Engineering*COMPANY **MARATHON OIL COMPANY**FILE NO. **3803-3320**WELL **NO. 2-25 TIN CUP MESA**DATE **16-MAR-84**FIELD **TIN CUP MESA**FORMATION **ISMAY/DESERT CREEK**ELEV. **4916 KB**COUNTY **SAN JUAN** STATE **UTAH**DRLG. FLD. **WBM**

CORES \_\_\_\_\_

LOCATION **NW SW SEC. 25-T38S-R25E****CORRELATION COREGRAPH**

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc., (all errors or omissions excepted); but Core Laboratories, Inc., and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

VERTICAL SCALE: 5" = 100'

Total Water \_\_\_\_\_

PERCENT PORE SPACE

100 80 60 40 20 0

Oil Saturation ☒

PERCENT PORE SPACE

0 0 20 40 60 80 100

Gamma Ray

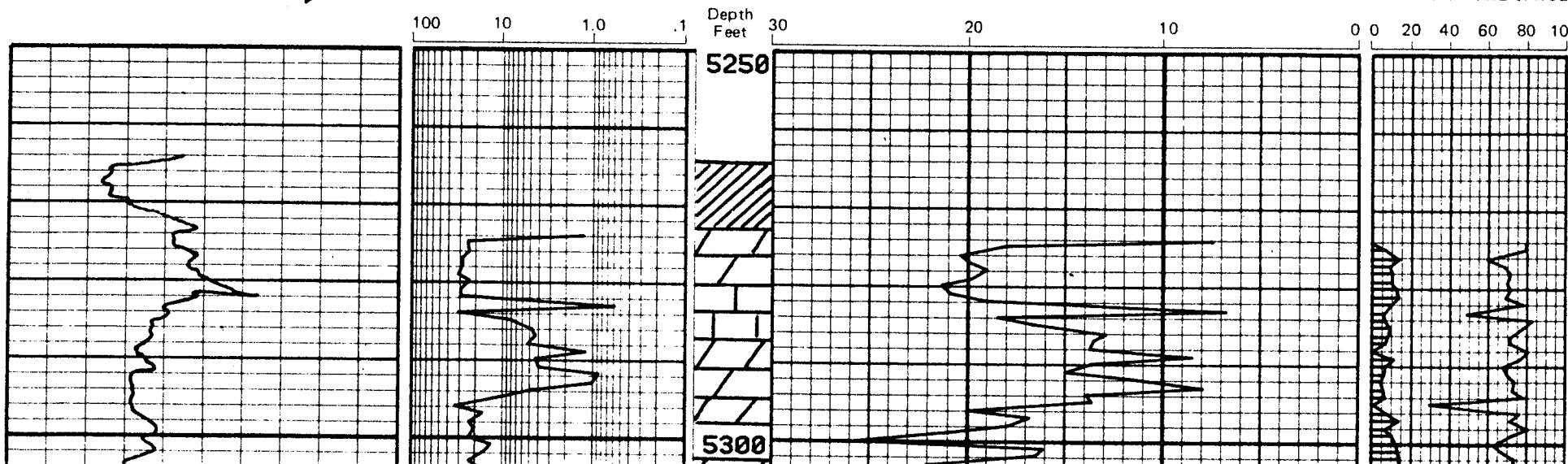
RADIATION INCREASE →

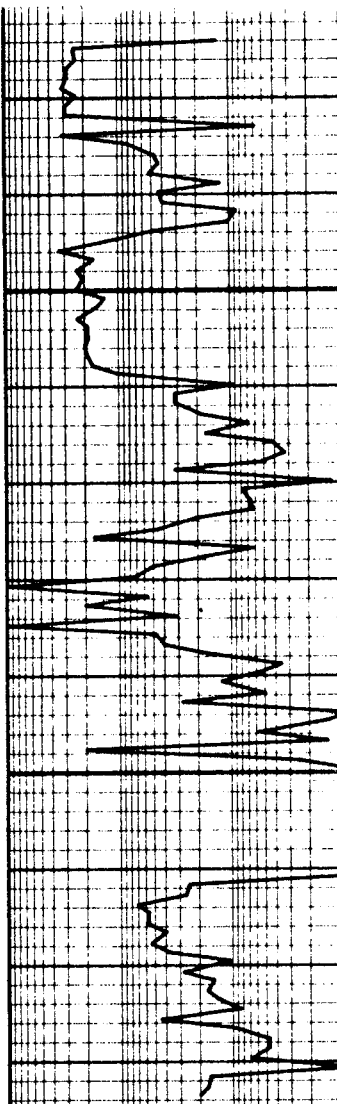
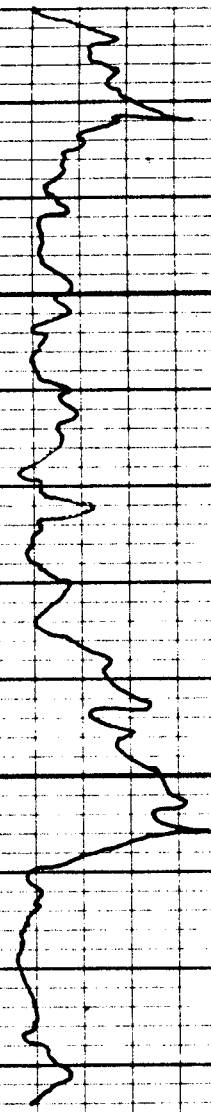
Permeability \_\_\_\_\_

MILLIDARCIES

Porosity \_\_\_\_\_

PERCENT



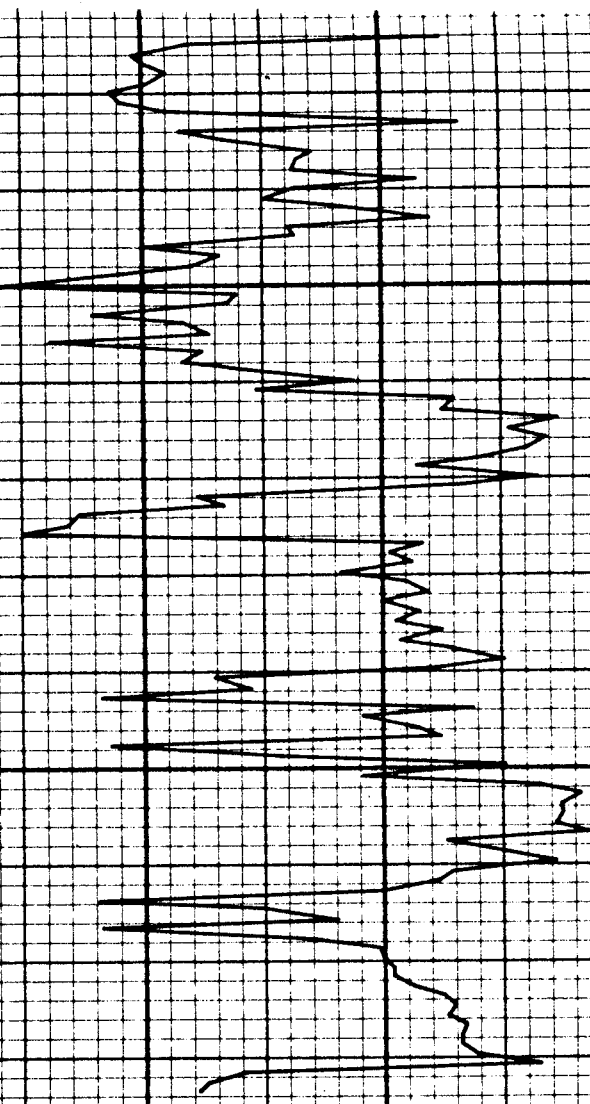


5300

5350

5400

DRILLED



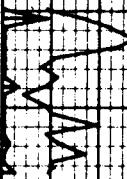
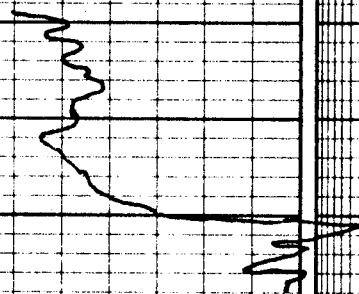


5400

DRILLED

5550

5600



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instruction  
reverse side)

Form 3150-5  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. ☐ OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR  
Marathon Oil Company

3. ADDRESS OF OPERATOR  
P. O. Box 2690, Cody, Wyoming 82414

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)

At surface  
1980' FSL & 660' FWL

RECEIVED  
AUG 16 1989

DIVISION OF  
OIL, GAS & MINING

14. PERMIT NO.  
43-037-30983

15. ELEVATIONS (Show whether DT, RT, GL, etc.)

4916' KB

5. LEASE DESIGNATION AND SERIAL NO.

U-13655

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Tin Cup Mesa

8. FARM OR LEASE NAME

Tin Cup Mesa

9. WELL NO.

2-25

10. FIELD AND POOL, OR WILDCAT

Tin Cup Mesa

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 25, T38S, R25E

12. COUNTY OR PARISH 13. STATE

San Juan

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other) See Below

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Marathon Oil Company requests approval to perform a water shut-off in the above referenced well by following the attached procedure.

OIL AND GAS

DRN

1-JRB

DTS

SIG

2-TAS

3-MICROFILM

4-FILE

BLM-Orig & 3--cc: WOGCC-2, WRF, FMK, TKS, Title & Contract (Houston)

18. I hereby certify that the foregoing is true and correct

SIGNED R.P. Meador by FMK

TITLE Regulatory Coordinator

DATE

July 11, 1989

(This space for Federal or State office use)

APPROVED BY Dennis Rodine  
CONDITIONS OF APPROVAL, IF ANY:

TITLE

Richard Meador

ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

\*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
ORIGINAL TO BUREAU  
COPIES TO FIELD OFFICE

U-13655

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or to plug a well. Use APPLICATION FOR PERMIT TO DRILL.

1. ☒ OIL WELL ☐ GAS WELL ☐ OTHER

2. NAME OF OPERATOR  
Marathon Oil Company

3. ADDRESS OF OPERATOR  
P. O. Box 2690, Cody, Wyoming 82414

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
1980 FSL & 660' FWL

JRB  
DTS

1-TAS

2. MICROFILM

3. FILE

RECEIVED  
JAN 16 1990

5. IF INDIAN ALLOTTEE OR TRIBE NAME

6. UNIT AGREEMENT NAME  
Tin Cup Mesa

7. FARM OR LEASE NAME  
Tin Cup Mesa

8. WELL NO.  
2-25

9. WELL AND POOL, OR WILDCAT  
Tin Cup Mesa

10. SEC., T., R., M., OR BLK. AND  
CORNER OR AREA

Sec. 25, T38S, R25E

12. COUNTY OR PARISH  
San Juan

13. STATE  
Wyoming

14. PERMIT NO.  
43-037-30983

16. ELEVATIONS (Show whether DT, RT, CR, etc.)

4916' KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETION

ABANDON\*

CHANGE PLANE

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

See Below

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Marathon Oil Company completed the following work between July 31, 1989 and November 21, 1989.

1. Pulled bridge plug at 5322' KB.
2. Set cement retainer at 5322' KB and cement squeezed perforations 5326'-5342' KB with 100 sacks.
3. Reperforated 5300'-5318' and 5284'-5294' (4 JSPF).
4. Acidized same with 50 gallons of 15% HCL PAD acid per foot using SAP tool.
5. Returned the well to production.

BLM-Orig & 3--cc: ~~WOC66~~, WRF, ~~WRF~~, SPO, WTR-5, Title & Contract (Houston)

18. I hereby certify that the foregoing is true and correct

SIGNED *RPM*

TITLE Regulatory Coordinator

DATE December 28, 1989

(This space for Federal or State office use)

APPROVED BY **ACCEPTED**  
CONDITIONS OF APPROVAL, IF ANY:

TITLE Branch of Fluid Minerals  
Moab District

DATE JAN 9 1990

\*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

TO: ENVIRONMENTAL/SAFETY  
TERRY SKINNER  
DIV. OIL GAS & MINING

BLM - MONTICELLO  
W.T. REISH

FROM: Marathon Oil Company  
Rocky Mountain Region  
Field: TIN CUP MESA UNIT  
Address: 925 SOUTH BRDWAY  
CORTEZ, COLO. 81321

SPILL DATE MO DA YR	EST. SPILL TIME	AM PM	ESTIMATED SPILL VOLUME	MATERIAL SPILLED	SIGHTED BY	VOLUME RECOVERED
5/24/91	5:30	A.M.	10BBL	WATER & OIL	RALPH SMITH	99%

LOCATION OF SPILL (1/4, S., T., R., Specific Site, Field, Cty, State, Surface owner, lease no  
1980' FSL & 660 FWL, SECTION 25 T38S, R25E SAN JUAN COUNTY, UTAH TCM 2-25  
43-037-30983

DESCRIPTION OF SPILL AREA, EXTENT OF SPILL, RESULTANT DAMAGE: SANDY SOIL AROUND WELLHEAD.  
(APPROX 400 SQ. FT.) AREA COVERED WITH SALT WATER & LAYER OF OIL ON WATER.  
(APPROX. 2 BBL OIL.) SPILL VACUUMED UP WITHIN 2 HOURS. SLIGHT OIL STAIN ON  
REMAINING SOIL.

WATER AFFECTED (Name of water, volume entering): NONE

WEATHER: Clear ☒ Cloudy ☐ Fog ☐ Rain ☐ Snow ☐ Ice ☐  
Wind Velocity and Direction 0 Temperature

CAUSE OF SPILL AND ACTION TAKEN TO PREVENT REOCCURENCE: SECTION OF E.R.W. 3" FLOWLINE  
HEADER AT WELL SPLIT DUE TO OVERPRESSURE. PRESSURE CAUSED BY AUTO SAFETY  
SHUT DOWN AT TREATER. SAFETY SWITCH ON PUMPING UNIT FOUND TO BE FAULTY.  
REPLACED SECTION OF HEADER WITH 3" SEAMLESS PIPE.

RESPONSE PROCEDURES AND TIMES (Containment, recovery and cleanup, employee responsible):  
VACUUM TRAILER ON LEASE AT ALL TIMES USED FOR IMMEDIATE RESPONSE. LEAK WAS  
CONTAINED IN LOW AREA AROUND WELLHEAD. ALL LIQUIDS WERE VACUMMED UP AND  
HAULED TO PRODUCTION FACILITIES AND PUMPED INTO STORAGE TANKS FOR RECYCLE.  
NO PLANTS OR WATER INVOLVED. WASHED FRONT OF PUMPING UNIT WITH WATER.

ADDITIONAL SARA EMERGENCY NOTIFICATION REQUIREMENTS:

RECEIVED

JUN 03 1991

DIVISION OF  
OIL GAS & MINING

OVER

OTHER PERTINENT COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NOTIFICATION OF REGULATORY AGENCIES:

- A. Agency \_\_\_\_\_ Telephone No. \_\_\_\_\_ Time: \_\_\_\_\_  
Date \_\_\_\_\_ Person Contacted \_\_\_\_\_ By \_\_\_\_\_  
Comments: \_\_\_\_\_
- B. Agency \_\_\_\_\_ Telephone No. \_\_\_\_\_ Time: \_\_\_\_\_  
Date \_\_\_\_\_ Person Contacted \_\_\_\_\_ By \_\_\_\_\_  
Comments: \_\_\_\_\_
- C. Agency \_\_\_\_\_ Telephone No. \_\_\_\_\_ Time: \_\_\_\_\_  
Date \_\_\_\_\_ Person Contacted \_\_\_\_\_ By \_\_\_\_\_  
Comments: \_\_\_\_\_
- D. Agency \_\_\_\_\_ Telephone No. \_\_\_\_\_ Time: \_\_\_\_\_  
Date \_\_\_\_\_ Person Contacted \_\_\_\_\_ By \_\_\_\_\_  
Comments: \_\_\_\_\_
- E. Agency \_\_\_\_\_ Telephone No. \_\_\_\_\_ Time: \_\_\_\_\_  
Date \_\_\_\_\_ Person Contacted \_\_\_\_\_ By \_\_\_\_\_  
Comments: \_\_\_\_\_
- F. Agency \_\_\_\_\_ Telephone No. \_\_\_\_\_ Time: \_\_\_\_\_  
Date \_\_\_\_\_ Person Contacted \_\_\_\_\_ By \_\_\_\_\_  
Comments: \_\_\_\_\_

PERSON FILING REPORT: Signature: *Tom Klobberdanz* TOM KLOBERDANZ  
Date: 5/31/91 Type Name

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.

U-13655

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

Tin Cup Mesa

8. Well Name and No.

Tin Cup Mesa #2-25

9. API Well No.

43-037-30983

10. Field and Pool, or Exploratory Area

Tin Cup Mesa

11. County or Parish, State

San Juan, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Marathon Oil Company

3. Address and Telephone No.

P. O. Box 2690, Cody, Wyoming 82414 (307) 587-4961

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980' FSL, 660' FWL, Sec. 25, T38S, R25E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☒ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Marathon Oil Company requests approval to recomplete this well by the following attached procedure.

RECEIVED

JUL 18 1991

DIVISION OF  
OIL GAS & MINING

Dist: BLM-Orig + 3--cc: (SUDOGM) WOCCE-2, WRF, FMK, Title & Contracts (Houston), WTR-5

14. I hereby certify that the foregoing is true and correct

Signed

*R P Menden*

Title Regulatory Coordinator

Date 6/26/91

(This space for Federal or State office use)

Approved by

*William C. Hunsger*

Title for Minerals

Date 7/10/91

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

Tin Cup Mesa #2-25  
1980' FSL, 660' FWL  
Section 25, T38S, R25E  
San Juan County, Utah  
Gas Cap Recompletion Procedure  
AFE #5-526-1

WELL DATA

Elevation: GL: 4,904' KB: 4,916'

Depths (KB): TD: 5,619' KB PBD: 5,463' KB

Casing Record (KB):  
Surface 14" thinwall steel pipe from surface to 50'.  
Intermediate 8-5/8", K-55, 24# STC from surface to 1,502'  
with 853 sacks.  
Production 5-1/2", K-55, 15.5# and 17# from surface to  
5,619' with 1025 sacks. Estimated TOC at 700'.

Tubing Record (KB): 177 joints 2-7/8", J-55, EUE tubing  
Bottom of mud anchor at 5,396.97'.

Perforation Record (KB): Upper Ismay  
5,284-5,294' (4 JSPF)  
5,300-5,318' (4 JSPF)  
5,326-5,342' (Cement Squeezed)

Proposed Perforations (KB): Upper Ismay  
5,279'-5,284' (4 JSPF)

PROCEDURE SUMMARY

This procedure proposes to perforate and acidize five additional feet of Upper Ismay pay zone (4 feet of oil bearing pay and 1 foot of gas cap pay). Coincident with the recompletion, the Upper Ismay perforations, 5,484'-5,494' KB, will be remedially treated with 15% Fe HCL DAD acid (10% xylene by volume). To provide continuous paraffin treatment within the tubing in this flumping well, a chemical injection mandrel will be run with the production tubing string. Stainless steel tubing (1/8" O.D.) will be banded to the tubing from surface to the mandrel placement depth of about 5,240' KB (directly above the tubing anchor). After the rods and pump have been run, the well will be returned to production.

PROCEDURE

1. Haul two clean 400-bbl. frac tanks to location. Fill one tank with Ismay produced water. MIRU workover rig with circulation pump and pit.
2. Note: This step should be performed one day prior to proceeding with the work described in Step #3. RU hot oil truck with 70 bbls. produced water (containing 7 gals. Wellaid 314 surfactant) which has been heated to  $\pm 250^{\circ}$  F. While continuing to pump this well, pump 5 bbls. hot water down the flowline and 65 bbls. down the backside. Load the hot oil truck with another 70 bbls. of produced water containing surfactant. Pump 70 bbls. hot water down the backside. Produce the well for 4 hours and then shut the well in overnight.
3. Pump 100 bbls. produced water down the tubing to kill the well. POOH with rods and pump. NU 5,000# BOPE. Release TA (set in 16,000# tension). TOOH with TA and tubing.
4. PU 4-3/4" rock bit and 5-1/2" Baker casing scraper dressed for 15.5-17# casing. Roundtrip bit and scraper on tubing to PBTD.
5. Rig up wireline company with 5,000# packoff and wireline BOP (have full lubricator on location as a contingency). RIH with 4" HEGS guns loaded for 90° phasing, 4 JSPF, and 22.7 gram charges. Correlate depth with casing collars on Schlumberger CBL run on 3-24-84 (verify PBTD measured in Step #4). Perforate the Upper Ismay from 5,279-5,284' KB. POOH with guns and RD wireline company. Visually inspect the guns to ensure that all shots were fired properly.
6. PU and RIH with Baker 5-1/2" Model 45A4 Service Adaptable Packer (SAP) dressed for one foot spacing between packing elements (with mandrel plug inserted into the mandrel), one 4' tubing sub, and 2-7/8" SN. Continue RIH with SAP assembly on 173 joints 2-7/8" tubing and place the center of the packing elements at 5,250' KB. Pressure test the packer and tubing in blank pipe to 2300 psi.
7. Move the packer downhole to straddle the top perms. Locate them by pumping produced water at a maximum pressure of 2,300 psi. Once the top perms have been identified, RIH 20' and set packer. PUH in one foot increments until the blank pipe, 5,295-5,300' KB, and the bottom perms at 5,294' KB have been identified.
8. Set packer elements in blank pipe from 5,295'-5,300' KB. RIH with rod fishing tool on sandline and fish SAP mandrel plug. RU swab equipment. Swab test the perms from 5,300'-5,318' KB. Note fluid cuts and rates hourly. Monitor the backside for communication between the production perf intervals while swabbing. RD swab equipment. Drop inspected mandrel plug down the tubing. Pump produced water down tubing to ensure mandrel plug is seated properly. Release packer. PUH to 5,250' KB, and do not set packer.



9. RU Dowell-Schlumberger. Test surface lines to 4000 psi. Acidize the Upper Ismay perforations from 5,279-5,284' KB in one foot increments as follows:
- Pickle the tubing by pumping 2 bbls. 15% Fe HCL down the tubing followed by 28 bbls. produced water. After establishing reverse circulation with produced water, reverse circulate an additional 40 bbls. produced water to remove the acid from the tubing.
  - RIH to 5,295' KB and set packer. Pressure test between packing elements to 3300 psi. Bleed off pressure. PUH in one foot increments until the bottom perf at 5,294' KB is identified by pumping produced water only. Drop Injection Control Valve (ICV) down tubing. Open packer bypass and pump produced water down tubing to ensure that the ICV is opening and closing properly (the ICV should be set to open approximately 800 psi over the maximum expected hydrostatic pressure of 2300 psi).
  - Open the packer bypass and spot 800 gals. of 15% Fe HCL DAD acid (containing iron sequestering agents, corrosion inhibitors, and non-emulsifiers) to within 2 bbls. of the SAP tool.
  - Acidize the perfs from 5,294'-5,279' KB in increments of 50 gal/ft. at a maximum pressure of 2300 psi and a maximum rate of 1/2 BPM. Leave the backside open to check for communication. If communication does occur, shut-in the backside immediately to force the acid into the formation. (Note the rate, pressure, and whether or not communication occurs on each set).
  - After the last set of perfs have been acidized, RIH to place the center of the packing elements at 5,350' KB. Reverse circulate acid from the wellbore with produced water (about 50 bbls.).
- NOTE: All personnel are to wear safety goggles during all acidizing activities.
10. PUH and reset the packer at 5,250' KB. Pressure test the packer, valves, and tubing to the maximum treating pressure to ensure that everything had been working properly. RD Dowell-Schlumberger. RIH with 3/4" rod fishing tool on sandline and fish ICV.
11. RU swab equipment. Swab back load fluid until samples are clean and pH has returned to 6.0-6.5. Record fluid levels, cumulative recoveries, and cuts hourly.
12. RIH with mud anchor (30.48'), SN (1.1'), 4 jts. of 2-7/8" tubing (123'), redressed tubing anchor (2.67'), and Otis chemical injection mandrel (2-7/8" x 4'). Connect 1/8" O.D. stainless steel tubing to the mandrel port. Band stainless steel tubing to 173 jts. 2-7/8" tubing ( $\pm$  5,228') while RIH. (The pump intake should be set about 51' below the bottom

production perfs at 5,318' KB). Make up a "donut"-style tubing hanger (with port taps for the stainless tubing) to the top of the tubing. Set tubing anchor and land tubing hanger in about 15,000# tension.

13. ND BOPE. PU and RIH with pump and rods. Shoot static fluid level, or record static surface pressure if the fluid level is at the surface, before placing the well back on pump. RDMO workover rig after the well is pumped up.

KDW/sp (CFR-999)

APPROVALS:

K.D. Walsh 6/19/91

S.W. Hennings 6/19/91

TK Skinner 6/20/91

xc: W. T. Reish  
T. K. Skinner  
S. W. Hennings

K. D. Walsh (2)  
D. K. Barker  
J. D. Campanella

T. W. Kloberdanz (2)  
'WRF'

Marathon Oil Co.  
Sec. 25, T. 38 S., R. 25 E.  
San Juan County, Utah  
U-13655  
Tin Cup Mesa #2-25  
Recompletion

CONDITIONS OF APPROVAL

1. A subsequent report of operations is to be submitted to the BLM, Moab District Office within 30 days of completion of operations.
2. Chromate based corrosion inhibitor may not be used.

**COPY**

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

JAN 11 1996

IN REPLY REFER TO:  
UT-922

January 12, 1996

Cochrane Resources, Inc.  
P.O. Box 1656  
Roosevelt, Utah 84066

RE: Tin Cup Mesa Unit  
San Juan County, Utah

Gentlemen:

On January 11, 1996, we received an indenture dated January 9, 1996, whereby Marathon Oil Company resigned as Unit Operator and Cochrane Resources, Inc. was designated as Successor Unit Operator for the Tin Cup Mesa Unit, San Juan County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective January 12, 1996. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Tin Cup Mesa Unit Agreement.

Your statewide (Utah) oil and gas bond No. 0699 will be used to cover all operations within the Tin Cup Mesa Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks  
Chief, Branch of Fluid Minerals

Enclosure

bcc: District Manager - Moab (w/enclosure)  
Division of Oil, Gas & Mining  
Division of Mineral Adjudication U-923  
File - Tin Cup Mesa Unit (w/enclosure)  
MMS - Data Management Division ((Attn: Rose Dablo)  
Agr. Sec. Chron  
Fluid Chron

U-922:TAThompson:tt:01-12-96

WELL STATUS REPORTS  
UTAH STATE OFFICE

INSPECTION ITEM	API NO.	WELL NUMBER	QTOF SEC	TWN	RNG	WELL STATUS	LEASE NAME	OPERATOR
-----------------	---------	----------------	----------	-----	-----	----------------	------------	----------

** INSPECTION ITEM 8910203910	31761	TIN CUP MESA IS A						
8910203910		<del>430373088000S1</del>	<del>SWNW</del>	<del>25</del>	<del>38S</del>	<del>25E</del>	<del>MDW</del>	UTU31928
8910203910		<del>430373088000S1</del>	<del>SWNW</del>	<del>25</del>	<del>38S</del>	<del>25E</del>	<del>NIN</del>	UTU31928
✓ 8910203910		430373088000S1 2-23	SESW	23	38S	25E	POW	UTU31928
✓ 8910203910		430373098300S1 2-25	NWSW	25	38S	25E	POW	UTU13655
8910203910		<del>430373088000S1</del>	<del>SWNW</del>	<del>23</del>	<del>38S</del>	<del>25E</del>	<del>NWSW</del>	UTU31928
✓ 8910203910		430373102000S1 3-25	SESW	25	38S	25E	TA	UTU13655
8910203910		<del>430373088000S1</del>	<del>SWNW</del>	<del>25</del>	<del>38S</del>	<del>25E</del>	<del>NIN</del>	UTU31928
8910203910		<del>430373088000S1</del>	<del>SESW</del>	<del>25</del>	<del>38S</del>	<del>25E</del>	<del>NIN</del>	UTU13655
8910203910		<del>430373088000S1</del>	<del>SESW</del>	<del>25</del>	<del>38S</del>	<del>25E</del>	<del>NIN</del>	UTU31928
✓ 8910203910		430373136800S1 5-26	SWNE	26	38S	25E	POW	UTU31928
✓ 8910203910		430373154000S1 6-26	NESE	26	38S	25E	POW	UTU31928

Entity#

2765

MARATHON OIL COMPANY  
MARATHON OIL COMPANY 431928  
MARATHON OIL COMPANY 431928  
MARATHON OIL COMPANY 413655  
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MARATHON OIL COMPANY 431928

JAN 23 1996

## **RESIGNATION OF OPERATOR**

**Tin Cup Mesa Unit Area**

**County of San Juan**

**State of Utah**

**Unit Agreement No. 14-08-0001-20391**

Under and pursuant to the provisions of Section 5 of the Unit Agreement for the Development and Operation of the Tin Cup Mesa Unit Area, San Juan County, Utah, Marathon Oil Company, the designated Unit Operator under said Unit Agreement, does hereby resign as Unit Operator, effective upon the selection and approval of a successor Unit Operator.

EXECUTED with effect as aforesaid this 29th day of November, 1995.

**ATTEST:**



**MARATHON OIL COMPANY**



By: A.R. Kukla  
Title: Attorney-In-Fact



12-19-95

Authorized Officer  
Bureau of Land Management


Re: Tin Cup Mesa Unit  
San Juan County, Utah

Gentlemen:

Enclosed for your consideration and approval, are four (4) copies of Resignation  
of Unit Operator ~~and Designated Successor Operator~~ for the Tin Cup Mesa Unit  
Area.

Cochrane Resources, as the designated successor operator under the Tin Cup Mesa Unit  
Agreement, hereby certifies that the requisite approvals of the current working interest  
owners in the agreement have been obtained to satisfy the requirements for selection  
of a successor operator as set forth under the terms and provisions of the agreement.  
All operations within the Tin Cup Mesa Unit Agreement will be covered by bond no.  
UT0699.

Sincerely,

  
Ken Allen  
Cochrane Resources, Inc.  
President

Enclosures

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Routing:

1-DEC 7-FILM	<input checked="" type="checkbox"/>
2-DEC 8-FILE	<input checked="" type="checkbox"/>
3-VLD	<input checked="" type="checkbox"/>
4-RJF	<input checked="" type="checkbox"/>
5-LRC	<input checked="" type="checkbox"/>
6-SJ	<input checked="" type="checkbox"/>

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

- ☒ Change of Operator (well sold) ☐ Designation of Agent  
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 12-01-95)

TO (new operator) COCHRANE RESOURCES INC  
 (address) PO BOX 1656  
ROOSEVELT UT 84066

FROM (former operator) MARATHON OIL COMPANY  
 (address) PO BOX 552  
MIDLAND TX 79702

phone ( 801 ) 722-5081  
 account no. N 7015

phone ( 915 ) 687-8155  
 account no. N 3490

**\*TIN CUP MESA UNIT**

Well(s) (attach additional page if needed):

Name: <b>**SEE ATTACHED**</b>	API: <u>037-30983</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

1 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Reg. 1-19-96) (Rec'd 1-23-96)

2 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Reg. 1-22-96) (Rec'd 1-23-96)

N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) \_\_\_\_\_ If yes, show company file number: \_\_\_\_\_

4 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.

5 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (2-8-96 O&G Wells) (Inf. Wells 4-3-96)

6 6. Cardex file has been updated for each well listed above. (2-8-96 O&G Wells) (Inf. Wells 4-3-96)

7 7. Well file labels have been updated for each well listed above. (2-8-96 O&G Wells) (Inf. Wells 4-3-96)

8 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (2-8-96 O&G Wells) (Inf. Wells 4-3-96)

9 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.



### ENTITY REVIEW

- Sec 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) \_\_\_\_ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

### BOND VERIFICATION (Fee wells only)

- N/A 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- \_\_\_\_ 2. A copy of this form has been placed in the new and former operators' bond files.
- \_\_\_\_ 3. The former operator has requested a release of liability from their bond (yes/no) \_\_\_\_.  
Today's date \_\_\_\_\_ 19\_\_\_\_. If yes, division response was made by letter dated \_\_\_\_\_ 19\_\_\_\_.

### LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated \_\_\_\_\_ 19\_\_\_\_, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- N/A 2. Copies of documents have been sent to State Lands for changes involving State leases.

### FILMING

- OK 1. All attachments to this form have been microfilmed. Date: April 17 1996.

### FILING

- \_\_\_\_ 1. Copies of all attachments to this form have been filed in each well file.
- \_\_\_\_ 2. The original of this form and the original attachments have been filed in the Operator Change file.

### COMMENTS

9/6/19 BLM/SL Appr. eff. 1-12-96.

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. DJJ

2. CDW

**X - Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

**4/1/2008**

<b>FROM:</b> (Old Operator): N7015-Cochrane Resources, Inc PO Box 1656 Roosevelt, UT 84066  Phone: 1 (435-722-5081)	<b>TO:</b> ( New Operator): N8195-Mar/Reg Oil Company PO Box 18148 Reno, NV 89511  Phone: 1 (775) 852-7444
--	---

CA No.				Unit:	TIN CUP MESA			
WELL NAME	SEC TWN RNG			API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED LIST								

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/4/2008
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/3/2008
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/23/2008
- a. Is the new operator registered in the State of Utah:          Business Number: 1267088-0143
- b. If **NO**, the operator was contacted on:
- a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
- b. Inspections of LA PA state/fee well sites complete on:
- c. Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 5/28/2008 BIA
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 5/28/2008
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 7/2/2008

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 7/1/2008
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 7/1/2008
- Bond information entered in RBDMS on: n/a
- Fee/State wells attached to bond in RBDMS on: n/a
- Injection Projects to new operator in RBDMS on: n/a
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: UTB000019
- Indian well(s) covered by Bond Number: n/a
- a. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a

**COMMENTS:**

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: SEE ATTACHED
2. NAME OF OPERATOR: COCHRANE RESOURCES, INC. <i>N7015</i>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: SEE ATTACHED
3. ADDRESS OF OPERATOR: PO BOX 1656 CITY ROOSEVELT STATE UT ZIP <i>84606</i>		7. UNIT or CA AGREEMENT NAME: SEE ATTACHED
4. LOCATION OF WELL FOOTAGES AT SURFACE: SEE ATTACHED; EXHIBIT "A" COUNTY: SAN JUAN QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH		8. WELL NAME and NUMBER: SEE ATTACHED
PHONE NUMBER: (435) 722-5081		9. API NUMBER:
10. FIELD AND POOL, OR WILDCAT: TIN CUP MESA		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: CHANGE OF OPERATOR
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The successor Operator for this well will be:

Mar/Reg Oil Company  
PO Box 18148  
Reno, NV 89511  
(775) 852-7444

*N8195*

Agreed and accepted this *2nd* day of June 2008

*effective April 1, 2008*

Mar/Reg Oil Company

By: *Rhonda Ahmad*  
Rhonda Ahmad  
President  
Mar/Reg State Wide Bond # is UTB000019

NAME (PLEASE PRINT) KEN ALLEN

TITLE PRESIDENT

SIGNATURE

DATE

(This space for State use only)

APPROVED *7/1/2008*

*Earlene Russell*

Division of Oil, Gas and Mining

Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED

JUN 03 2008

DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
COCHRANE RESOURCES, INC. N7015

3. ADDRESS OF OPERATOR:  
PO BOX 1656 CITY ROOSEVELT STATE UT ZIP 84606

PHONE NUMBER:  
(435) 722-5081

4. LOCATION OF WELL 84066

FOOTAGES AT SURFACE: SEE ATTACHED; EXHIBIT "A"

COUNTY: SAN JUAN

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

5. LEASE DESIGNATION AND SERIAL NUMBER:  
SEE ATTACHED

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
SEE ATTACHED

8. WELL NAME and NUMBER:  
SEE ATTACHED

9. API NUMBER:

10. FIELD AND POOL, OR WILDCAT:  
TIN CUP MESA

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: CHANGE OF OPERATOR
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The successor Operator for this well will be:

Mar/Reg Oil Company  
PO Box 18148  
Reno, NV 89511  
(775) 852-7444

Agreed and accepted this 3rd day of June 2008

Mar/Reg Oil Company

By: Rhonda Ahmad  
President  
Mar/Reg State Wide Bond # is UTB000019

NAME (PLEASE PRINT) KEN ALLEN

TITLE PRESIDENT

SIGNATURE *K Allen*

DATE 6-3-2008

(This space for State use only)

APPROVED 7/1/2008

Earlene Russell  
Division of Oil, Gas and Mining

Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED

JUN 04 2008

DIV. OF OIL, GAS & MINING

## Exhibit A Well List

### Tin Cup Mesa Unit Field

<u>API#</u>	<u>Lease Type</u>	<u>Well Name</u>	<u>Well Type</u>	<u>County</u>	<u>Location</u>	<u>Utah Entity #</u>
43-037-30690	Federal	TIN CUP MESA 1-25	Water Injection Well	SAN JUAN	25 SWNW T38S R25E	2765
43-037-30762	Federal	TIN CUP MESA 3-26	Oil Well	SAN JUAN	26 NWNE T38S R25E	2765
43-037-30808	Federal	TIN CUP MESA 2-23	Oil Well	SAN JUAN	23 SESW T38S R25E	2765
43-037-30815	Federal	TIN CUP MESA 3-23	Oil Well	SAN JUAN	23 SWSW T38S R25E	2765
43-037-30941	Federal	TIN CUP MESA 4-26	Oil Well	SAN JUAN	26 SENE T38S R25E	2765
43-037-30983	Federal	TIN CUP MESA 2-25	Oil Well	SAN JUAN	25 NWSW T38S R25E	2765
43-037-31020	Federal	TIN CUP MESA 3-25	Oil Well	SAN JUAN	25 SESW T38S R25E	2765
43-037-31145	Federal	TIN CUP MESA 4-25	Oil Well	SAN JUAN	25 SESW T38S R25E	2765
43-037-31368	Federal	TIN CUP MESA 5-26	Oil Well	SAN JUAN	26 SWNE T38S R25E	2765
43-037-31540	Federal	TIN CUP MESA 6-26	Oil Well	SAN JUAN	26 NESE T38S R25E	2765
43-037-31761	Federal	WDW 1	Water Disposal Well	SAN JUAN	25 SWNW T38S R25E	



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155  
<http://www.blm.gov/ut/st/en.html>



IN REPLY REFER TO  
3180  
UT-922

May 28, 2008

Mar/Reg Oil Company  
P. O. Box 18148  
Reno, Nevada 89511

Re: Tin Cup Mesa Unit  
San Juan County, Utah

Dear Ms. Ahmad:

On May 23, 2008, we received an indenture dated May 7, 2008, whereby Cochrane Resources, Inc. resigned as Unit Operator and Mar/Reg Oil Company was designated as Successor Unit Operator for the Tin Cup Mesa Unit, San Juan County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective May 28, 2008. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Tin Cup Mesa Unit Agreement.

Your statewide oil and gas bond no. UTB000019 will be used to cover all operations within the Tin Cup Mesa Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate agencies, with one copy returned herewith.

Sincerely,

/s/ Becky J. Hammond

Becky J. Hammond  
Chief, Branch of Fluid Minerals

Enclosure

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Down

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

**SUBMIT IN TRIPLICATE** - Other instructions on page 2.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. U-13655
2. Name of Operator MAR/REG OIL COMPANY		6. If Indian, Allottee or Tribe Name
3a. Address PO Box 18148, Reno, NV 89511		7. If Unit of CA/Agreement, Name and/or No. Tin Cup Mesa
3b. Phone No. (include area code) 775-852-7444		8. Well Name and No. Tin Cup Mesa Federal 2-25
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 980 ft FSL, 660 ft. FWL, Sec. 25, T38S, R25E, SLM		9. API Well No. 43-037-30983
		10. Field and Pool or Exploratory Area Tin Cup Mesa
		11. Country or Parish, State San Juan, Utah

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Raise Pump</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

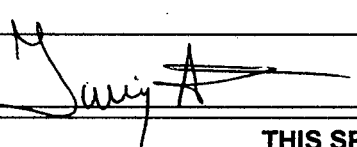
3. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

May 20, 2008 MIRU, pulled 6-8 bbls of oil off casing with vacuum truck, unseated packer, POOH 5223.73 ft of 2-7/8" tubing, nipples up Graco 5 1/2" tension packer large bore, ASI-X. RIH packer, tubing, set seating nipple at 2610.50 ft. Packer set at 5223.73 ft.

May 21, 2008 RIH 2 1/2"x2"x20' RWBC pump with 2-25' sinker bars, 70- 3/4" rods, 30 - 7/8" rods, 2- 1"x4' ponies, 4-1"x2' ponies and 22' polished rod.

Moved rig off hole, awaiting fuel gas supply before putting well into production.

RECEIVED  
JUL 08 2008  
DIV. OF OIL, GAS & MINING

I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Fariq Ahmad		Title Petroleum Engineer
Signature 		Date 07/02/2008

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2014

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.  
UTU-13655

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE – Other instructions on page 2.**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
MAR-REG OIL COMPANY

3a. Address  
PO BOX 18148, RENO, NV 89511

3b. Phone No. (include area code)  
775-852-7444

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
NWSW SEC 25, T38S, R25E, SLB

7. If Unit of CA/Agreement, Name and/or No.  
TIN CUP MESA UNIT

8. Well Name and No.  
TIN CUP MESA 2-25

9. API Well No.  
43-037-30983

10. Field and Pool or Exploratory Area  
TIN CUP MESA

11. County or Parish, State  
SAN JUAN, UTAH

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input checked="" type="checkbox"/> Temporarily Abandon	_____
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Requesting Temporarily Abandon status to evaluate this well on the potential for re-entry with horizontal drilling in both the Upper Ismay and Desert Creek. We have recently drill horizontally and are planning to do the same on other wells to completely drain both reservoirs.

**COPY SENT TO OPERATOR**

Date: 10/4/2012

Initials: \_\_\_\_\_

**REQUEST DENIED**  
Utah Division of  
Oil, Gas and Mining

Date: 10/2/2012

By: [Signature]

\*Requirements of REG-3-36 have not been met.

Federal Approval Of This  
Action Is Necessary

**RECEIVED**

**AUG 21 2012**

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)  
Dan Green

Title Petroleum Engineer

Signature

Date 08/16/2012

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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(Instructions on page 2)